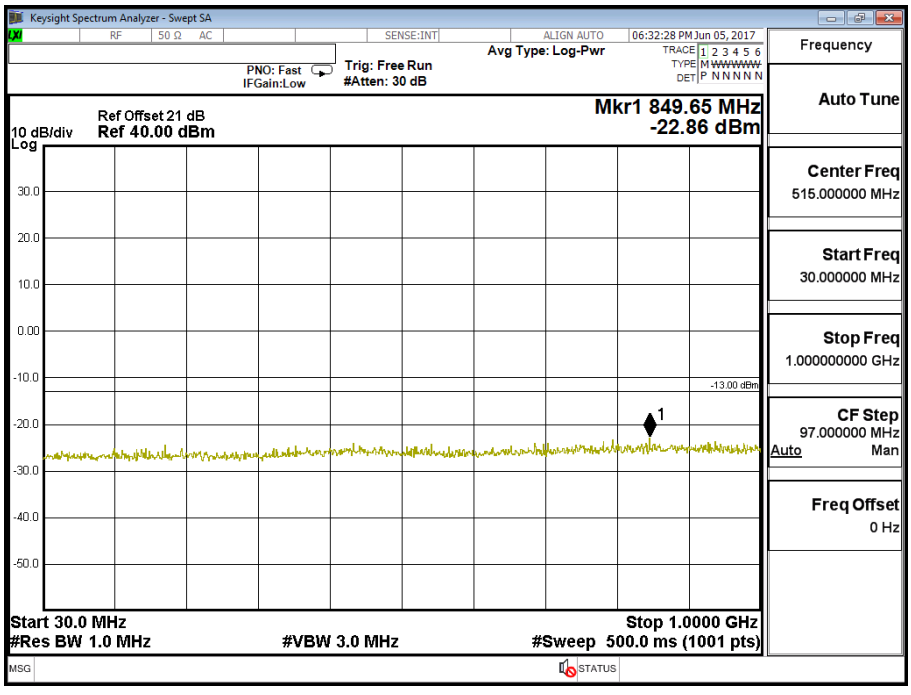
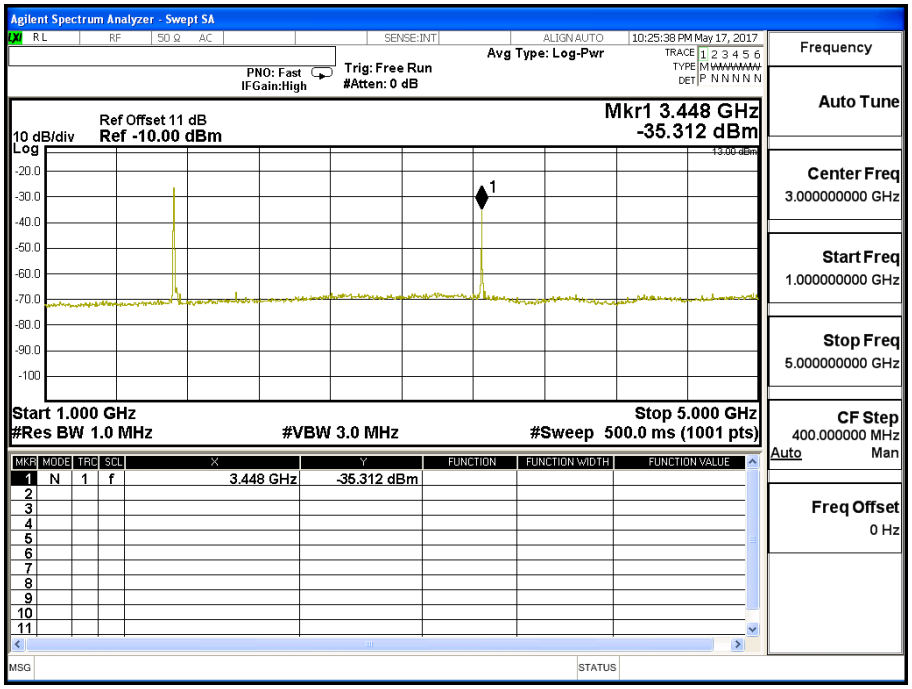
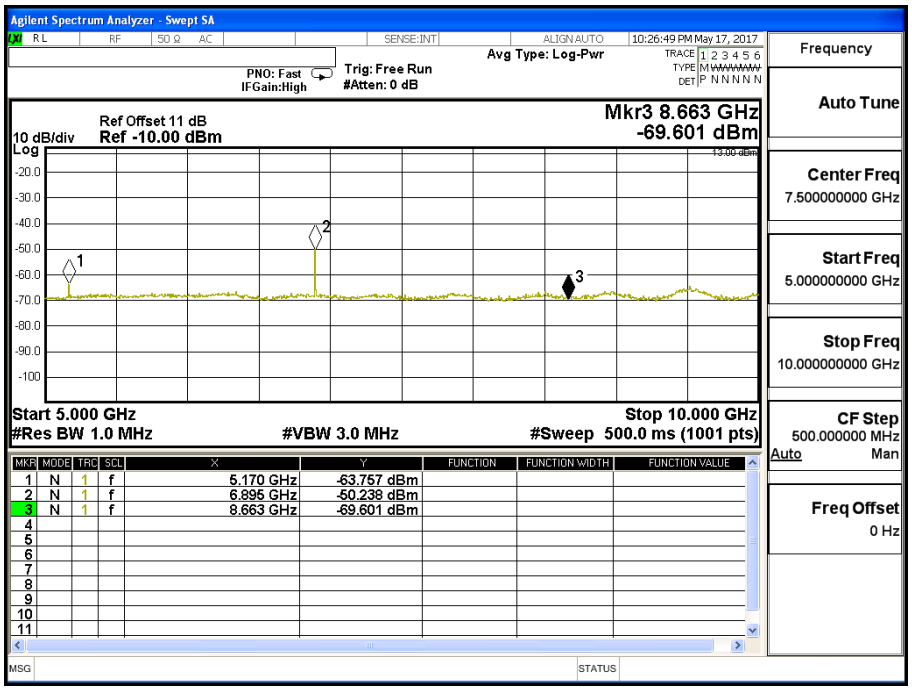
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 4 (20M)	Test Range	30MHz~20GHz

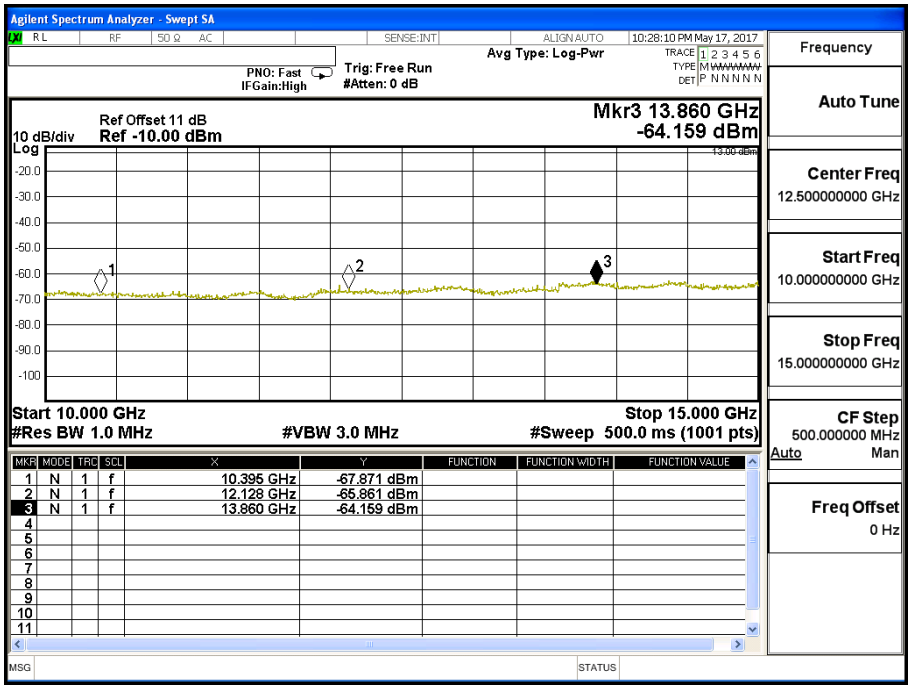
LTE-Band 4 (20M) QPSK(1,0) CH20175

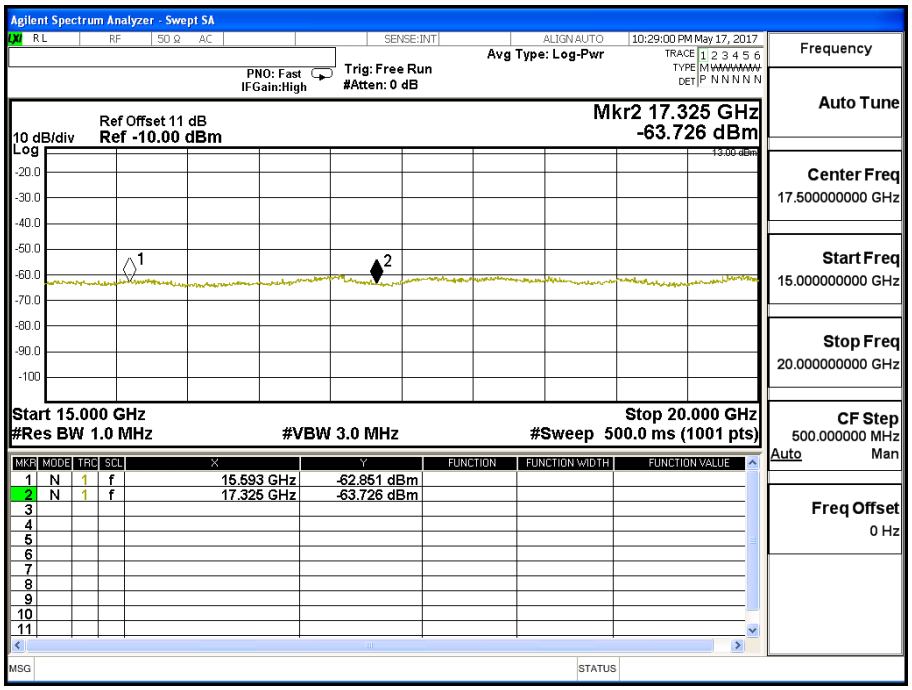
Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3448	-35.312	1.1	-34.212	-13
5170	-63.757	1.23	-62.527	-13
6895	-50.238	1.59	-48.648	-13
8663	-69.601	1.89	-67.711	-13
10395	-67.871	2.07	-65.801	-13
12128	-65.861	2.26	-63.601	-13
13860	-64.159	2.64	-61.519	-13
15593	-62.851	3.5	-59.351	-13
17325	-63.726	3.7	-60.026	-13




Agilent Spectrum Analyzer - Swept SA
10:25:38 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 3.448 GHz
-35.312 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 3.448 GHz -35.312 dBm
Frequency
Auto Tune
Center Freq
3.000000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
400.000000 MHz
Auto Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
10:26:49 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 8.663 GHz
-69.601 dBm
Start 5.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 5.170 GHz -63.757 dBm
2 N 1 f 6.895 GHz -50.238 dBm
3 N 1 f 8.663 GHz -69.601 dBm
Frequency
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0 Hz

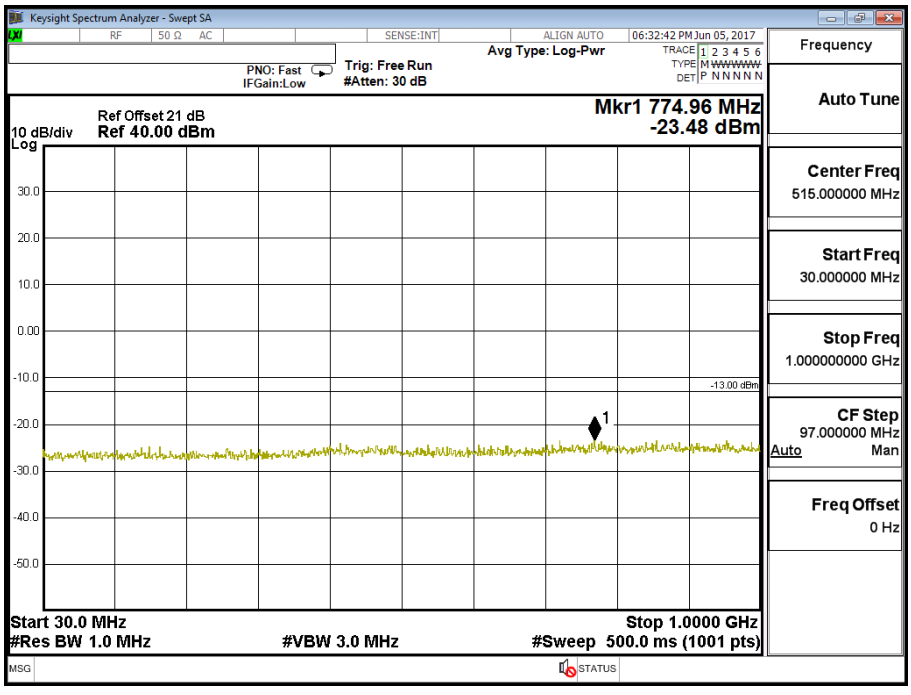

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:28:10 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 13.860 GHz
-64.159 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 15.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 10.395 GHz -67.871 dBm
2 N 1 f 12.128 GHz -65.861 dBm
3 N 1 f 13.860 GHz -64.159 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

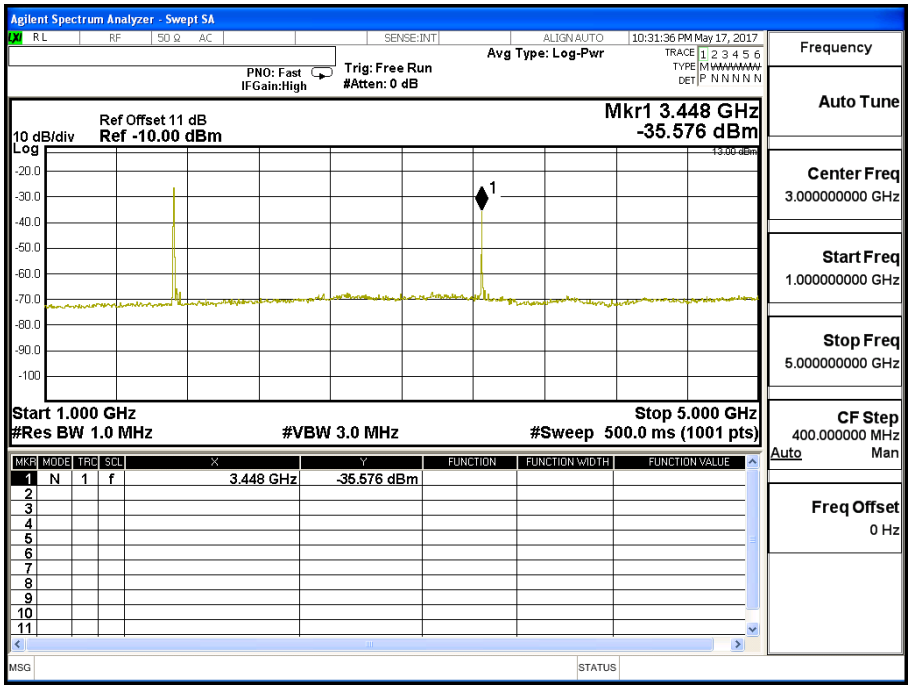

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:29:00 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 17.325 GHz
-63.726 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 15.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 20.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 16.593 GHz -62.851 dBm
2 N 1 f 17.325 GHz -63.726 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
15.000000000 GHz
Stop Freq
20.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

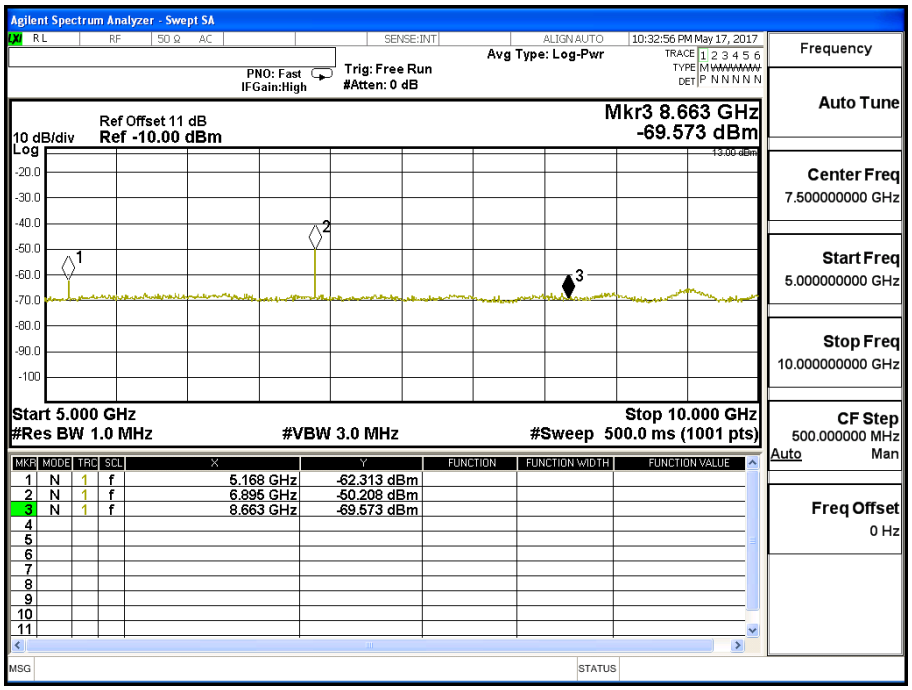
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 4 (20M)	Test Range	30MHz~20GHz

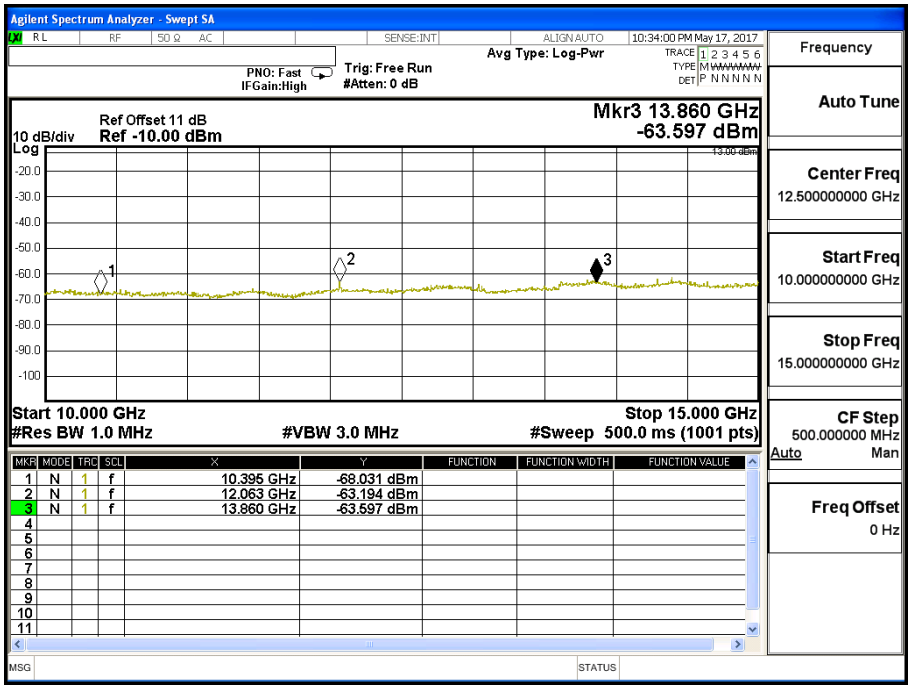
LTE-Band 4 (20M) 16QAM(1,0) CH20175

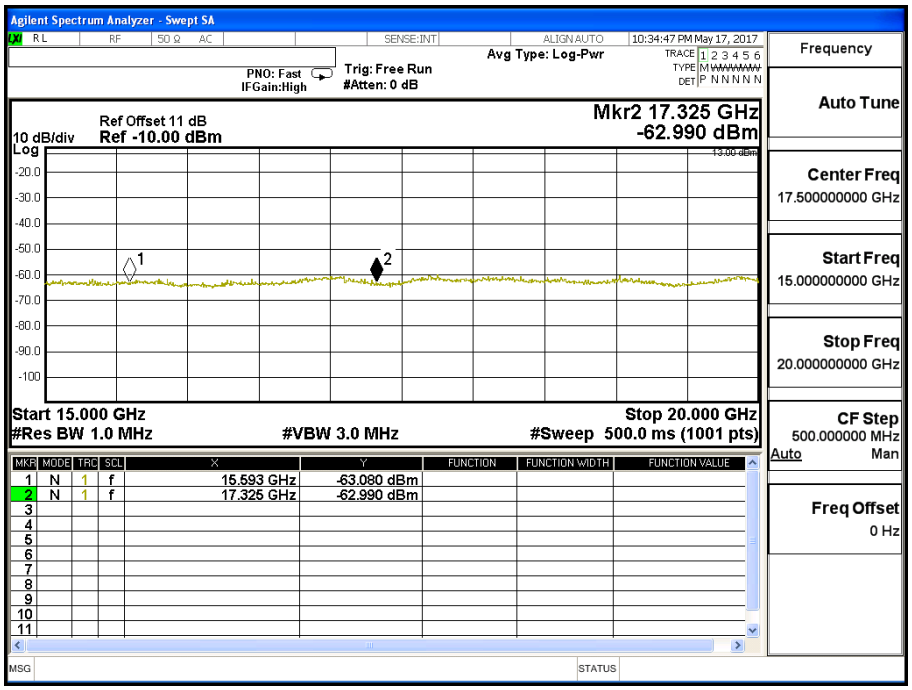
Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3448	-35.576	1.1	-34.476	-13
5168	-62.313	1.23	-61.083	-13
6895	-50.208	1.59	-48.618	-13
8663	-69.573	1.89	-67.683	-13
10395	-68.031	2.07	-65.961	-13
12063	-63.194	2.26	-60.934	-13
13860	-63.597	2.64	-60.957	-13
15593	-63.080	3.5	-59.580	-13
17325	-62.990	3.7	-59.290	-13




Agilent Spectrum Analyzer - Swept SA
10:31:36 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 3.448 GHz
-35.576 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 3.448 GHz -35.576 dBm
Frequency
Auto Tune
Center Freq
3.000000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
400.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
10:32:56 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 8.663 GHz
-69.573 dBm
Start 5.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 5.168 GHz -62.313 dBm
2 N 1 f 6.895 GHz -50.208 dBm
3 N 1 f 8.663 GHz -69.573 dBm
Frequency
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

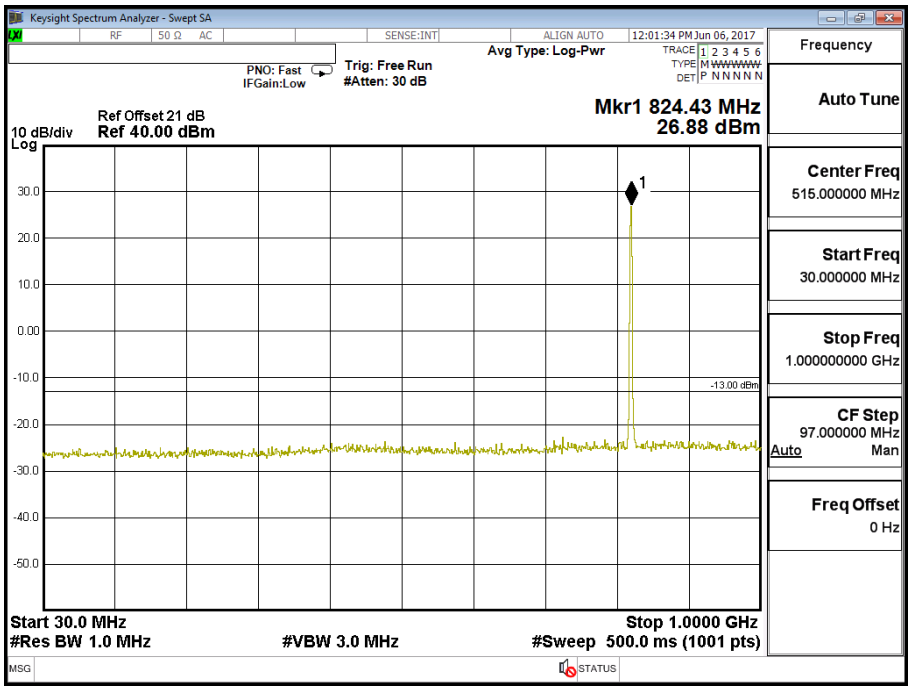

Agilent Spectrum Analyzer - Swept SA
10:34:00 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 13.860 GHz
-63.597 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 15.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 10.395 GHz -68.031 dBm
2 N 1 f 12.063 GHz -63.194 dBm
3 N 1 f 13.860 GHz -63.597 dBm
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

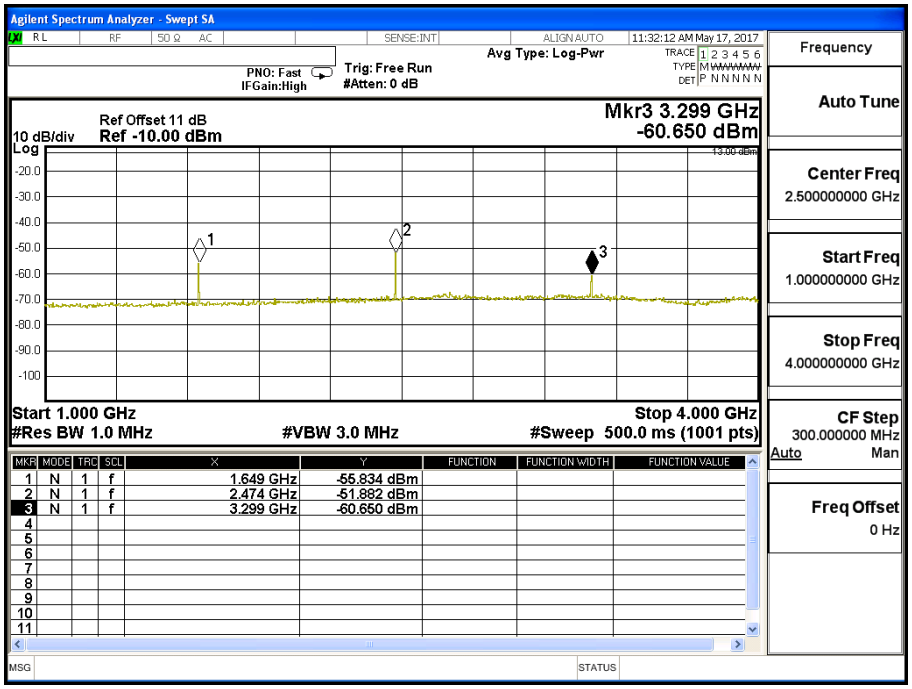

Agilent Spectrum Analyzer - Swept SA
10:34:47 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 17.325 GHz
-62.990 dBm
Start 15.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 20.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 16.593 GHz -63.080 dBm
2 N 1 f 17.325 GHz -62.990 dBm
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
15.000000000 GHz
Stop Freq
20.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

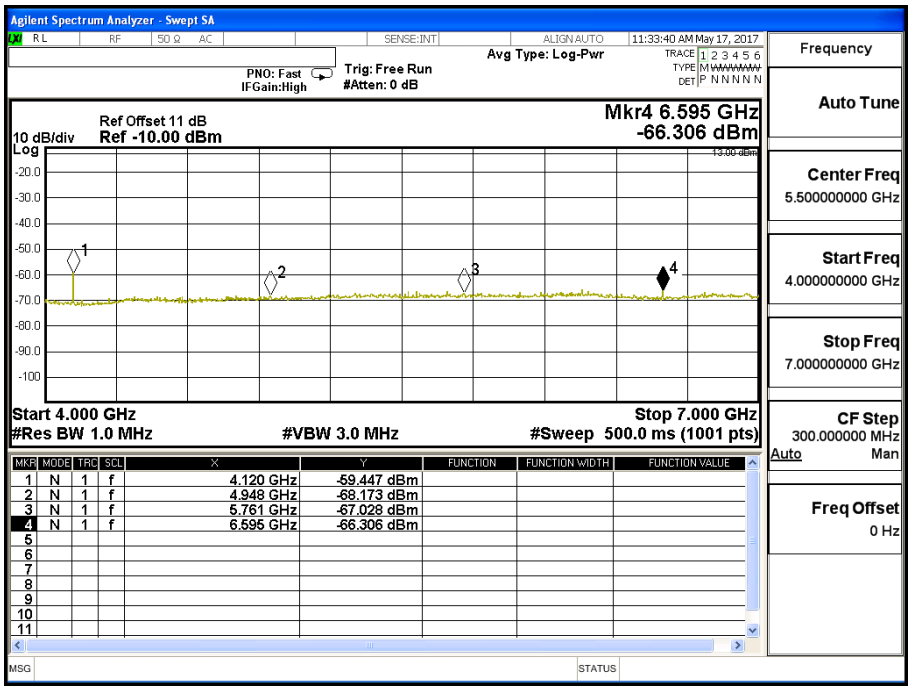
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (1.4M)	Test Range	30MHz~10GHz

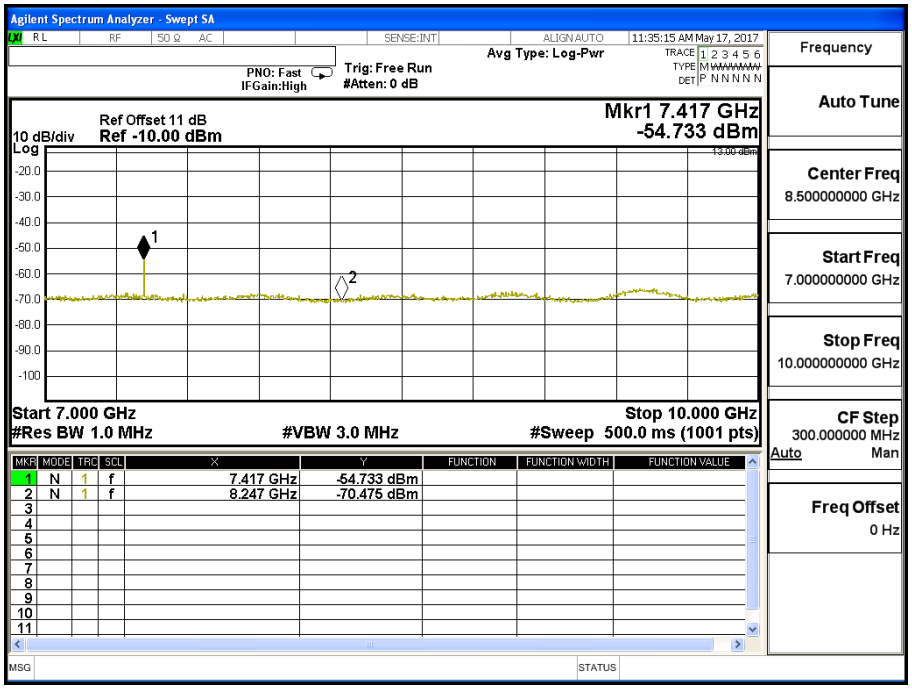
LTE-Band 5 (1.4M) QPSK(1,0) CH20407

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1649	-55.834	0.58	-55.254	-13
2474	-51.882	0.7	-51.182	-13
3299	-60.650	1.01	-59.640	-13
4120	-59.447	1.18	-58.267	-13
4948	-68.173	1.23	-66.943	-13
5761	-67.028	1.45	-65.578	-13
6595	-66.306	1.56	-64.746	-13
7417	-54.733	1.59	-53.143	-13
8247	-70.475	1.82	-68.655	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:32:12 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr3 3.299 GHz
-60.650 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.649 GHz -55.834 dBm
2 N 1 f 2.474 GHz -51.882 dBm
3 N 1 f 3.299 GHz -60.650 dBm
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

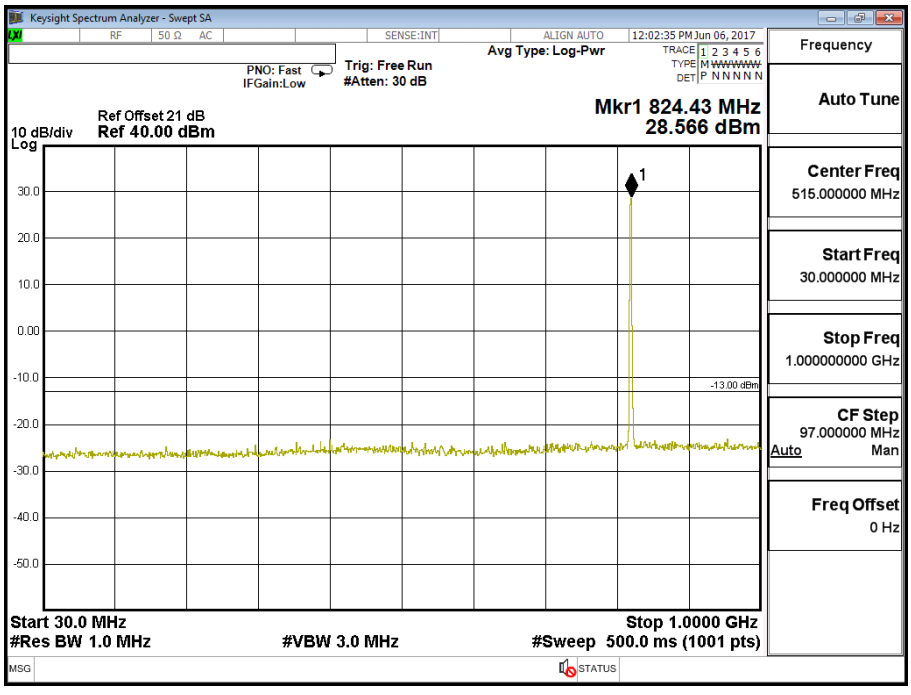

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:33:40 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr4 6.595 GHz
-66.306 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.120 GHz -59.447 dBm
2 N 1 f 4.948 GHz -68.173 dBm
3 N 1 f 5.761 GHz -67.028 dBm
4 N 1 f 6.595 GHz -66.306 dBm
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

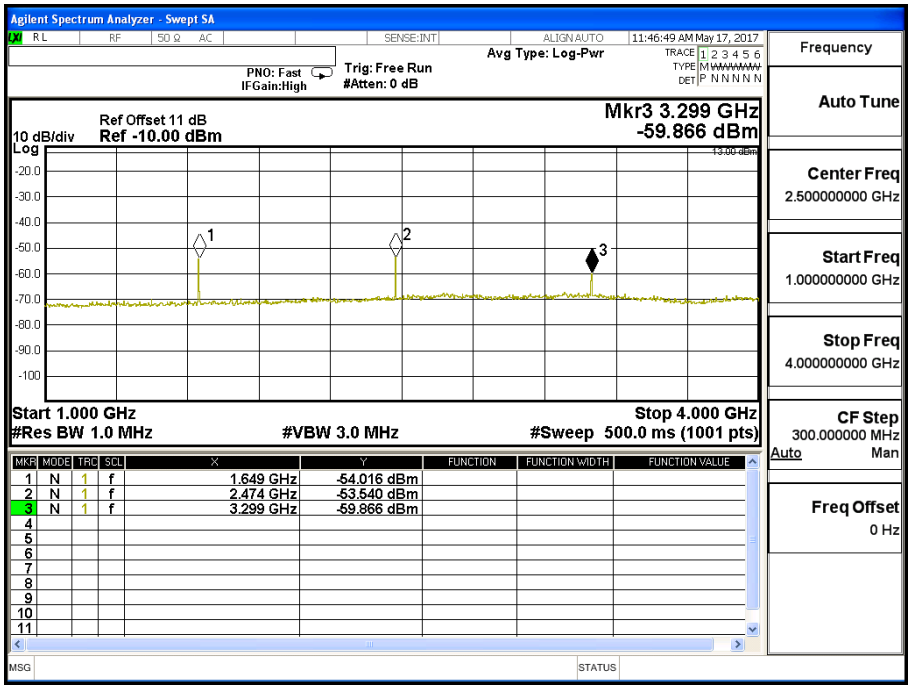

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:35:15 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr1 7.417 GHz
-54.733 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
1
2
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.417 GHz -54.733 dBm
2 N 1 f 8.247 GHz -70.475 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

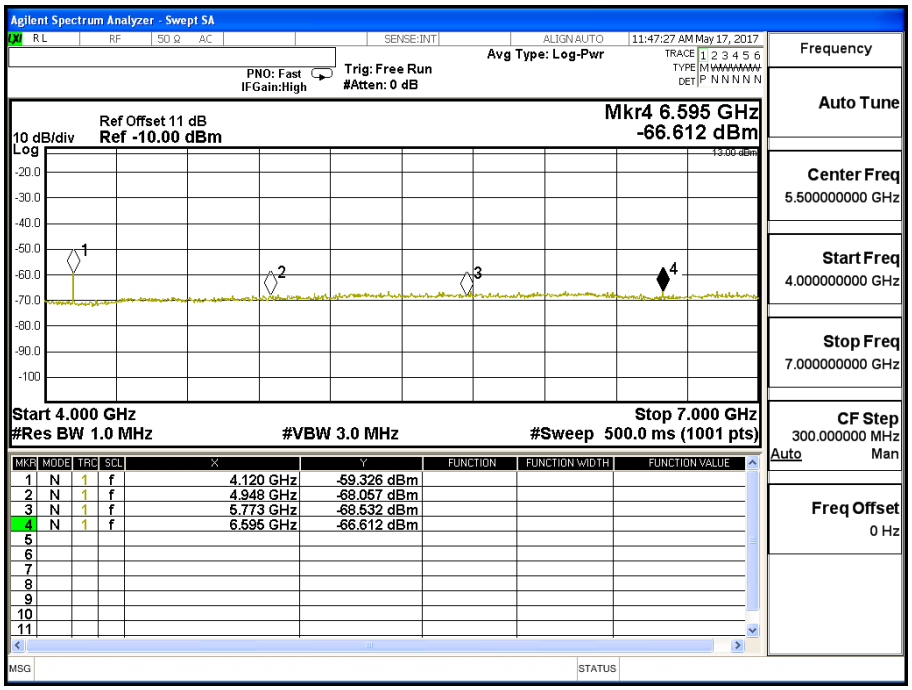
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (1.4M)	Test Range	30MHz~10GHz

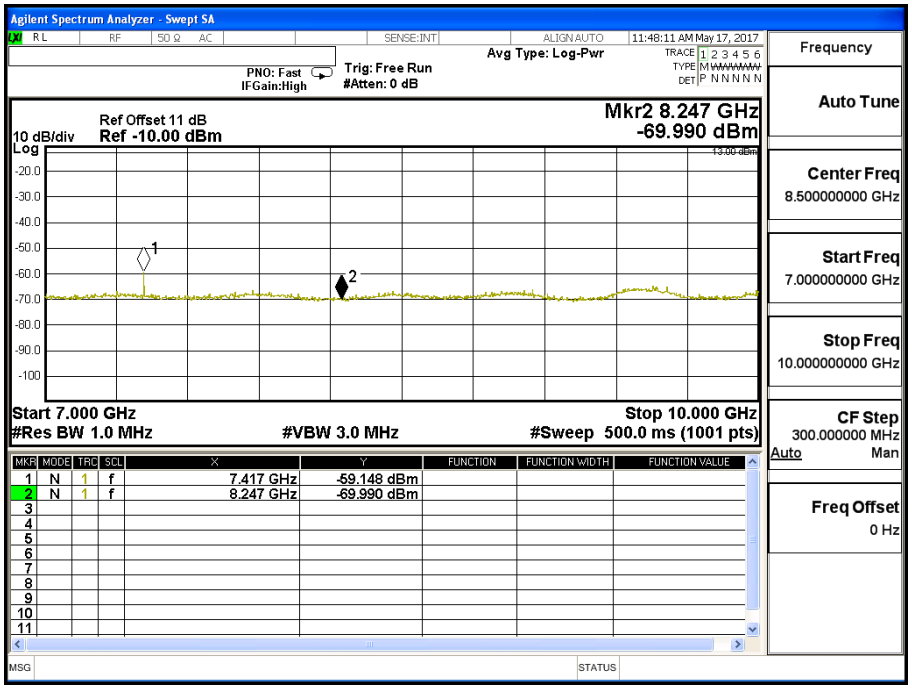
LTE-Band 5 (1.4M) 16QAM(1,0) CH20407

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1649	-54.016	0.58	-53.436	-13
2474	-53.540	0.7	-52.840	-13
3299	-59.866	1.01	-58.856	-13
4120	-59.326	1.18	-58.146	-13
4948	-68.057	1.23	-66.827	-13
5773	-68.532	1.45	-67.082	-13
6595	-66.612	1.56	-65.052	-13
7417	-59.148	1.59	-57.558	-13
8247	-69.990	1.82	-68.170	-13




Agilent Spectrum Analyzer - Swept SA
11:46:49 AM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 3.299 GHz
-59.866 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.649 GHz -54.016 dBm
2 N 1 f 2.474 GHz -53.540 dBm
3 N 1 f 3.299 GHz -59.866 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

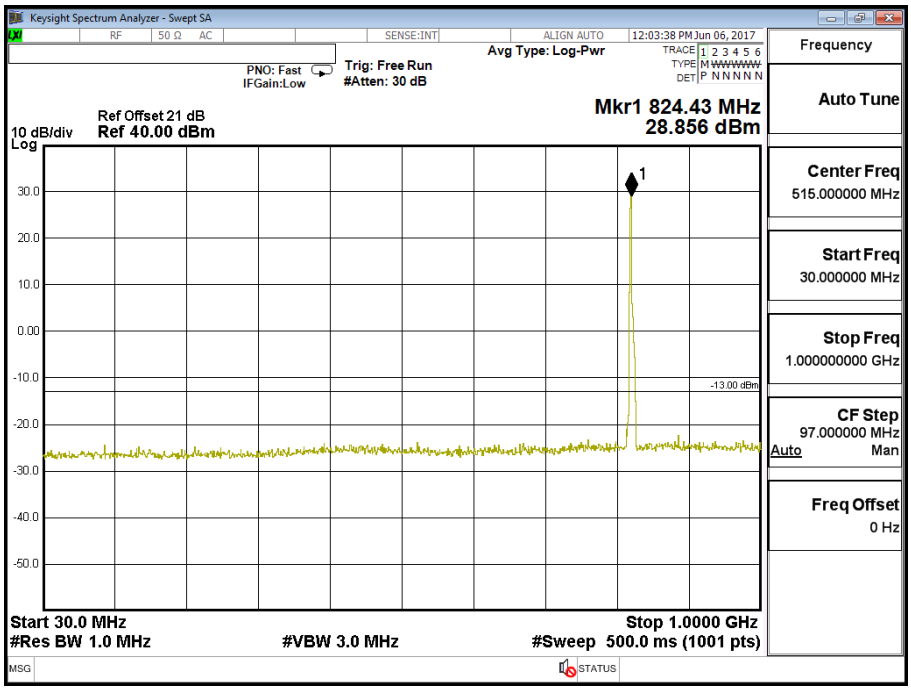

Agilent Spectrum Analyzer - Swept SA
11:47:27 AM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.595 GHz
-66.612 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.120 GHz -59.326 dBm
2 N 1 f 4.948 GHz -68.057 dBm
3 N 1 f 5.773 GHz -68.532 dBm
4 N 1 f 6.595 GHz -66.612 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

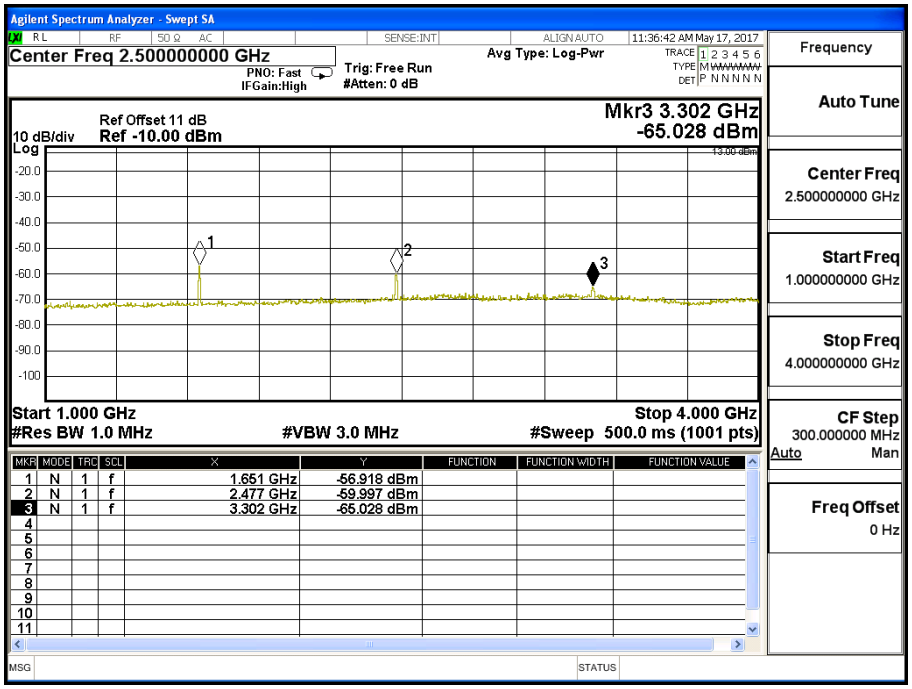

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:48:11 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 8.247 GHz
-69.990 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.417 GHz -59.148 dBm
2 N 1 f 8.247 GHz -69.990 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

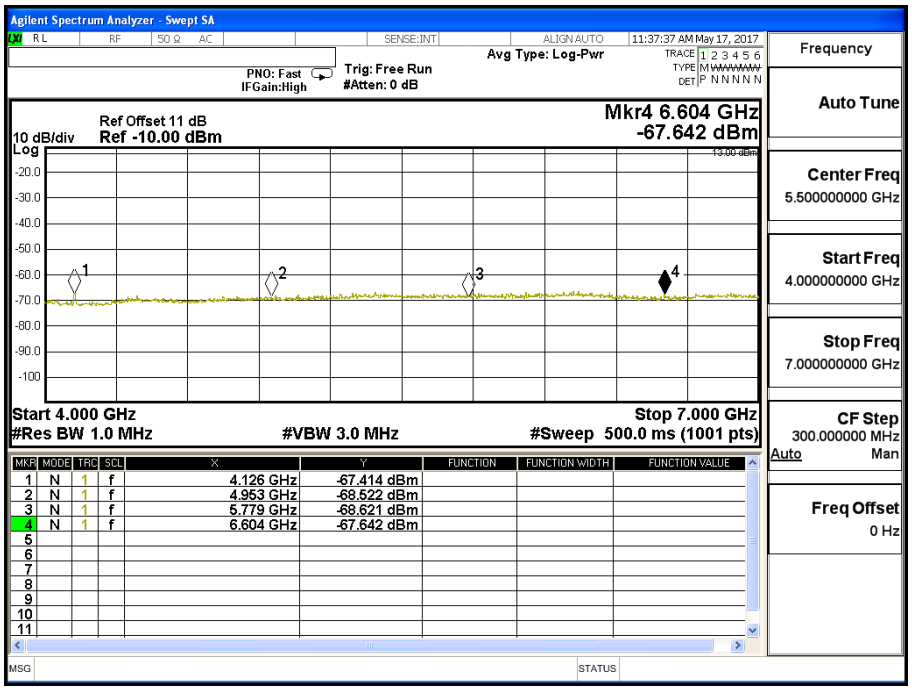
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (3M)	Test Range	30MHz~10GHz

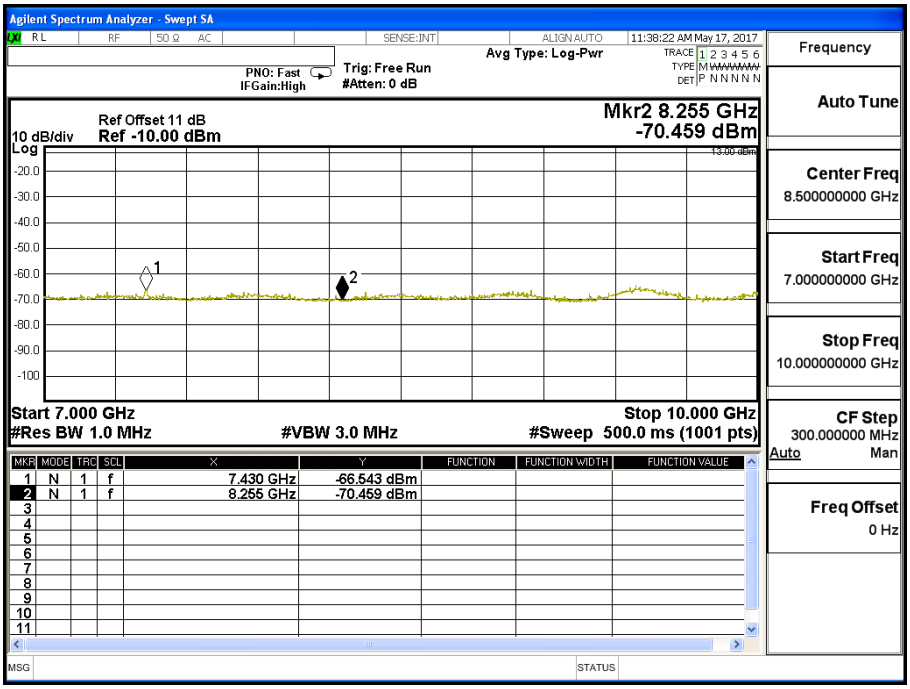
LTE-Band 5 (3M) QPSK(1,0) CH20415

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1651	-56.918	0.58	-56.338	-13
2477	-59.997	0.7	-59.297	-13
3302	-65.028	1.01	-64.018	-13
4126	-67.414	1.18	-66.234	-13
4953	-68.522	1.23	-67.292	-13
5779	-68.621	1.45	-67.171	-13
6604	-67.642	1.56	-66.082	-13
7430	-66.543	1.59	-64.953	-13
8255	-70.459	1.82	-68.639	-13




Agilent Spectrum Analyzer - Swept SA
Center Freq 2.500000000 GHz
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Avg Type: Log-Pwr
11:36:42 AM May 17, 2017
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 3.302 GHz
-65.028 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.651 GHz -56.918 dBm
2 N 1 f 2.477 GHz -69.997 dBm
3 N 1 f 3.302 GHz -65.028 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

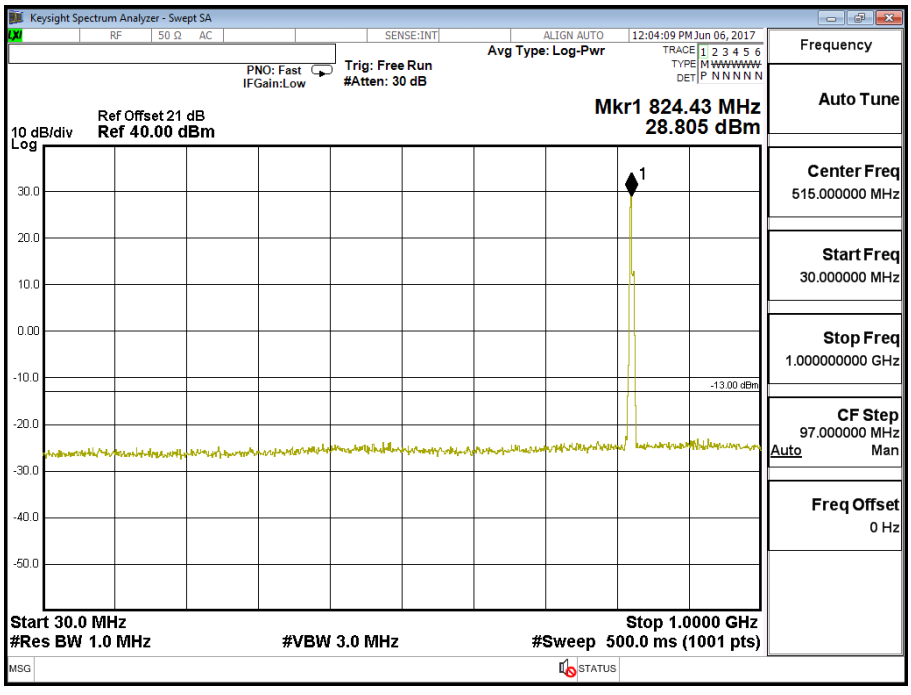

Agilent Spectrum Analyzer - Swept SA
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Avg Type: Log-Pwr
11:37:37 AM May 17, 2017
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.604 GHz
-67.642 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.126 GHz -67.414 dBm
2 N 1 f 4.953 GHz -68.522 dBm
3 N 1 f 5.779 GHz -68.621 dBm
4 N 1 f 6.604 GHz -67.642 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

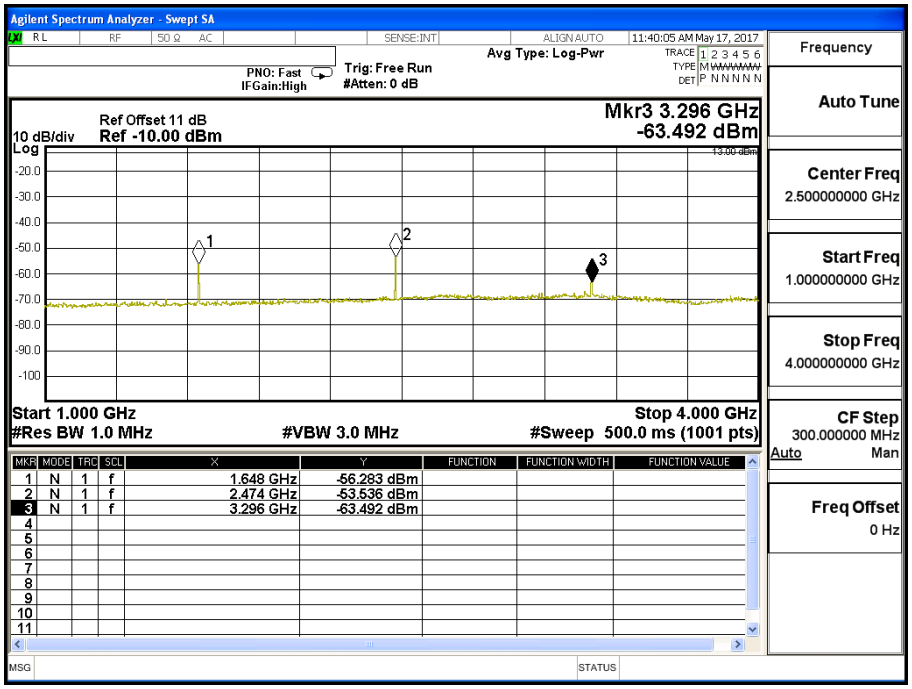

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:38:22 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Log
Ref -10.00 dBm
Mkr2 8.255 GHz
-70.459 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
1
2
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.430 GHz -66.543 dBm
2 N 1 f 8.255 GHz -70.459 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

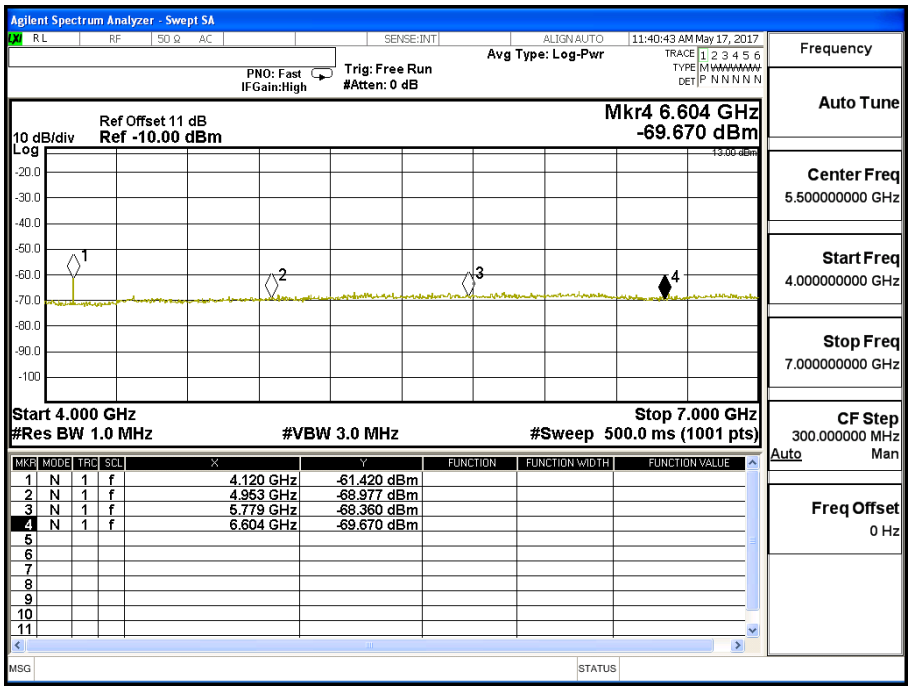
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (3M)	Test Range	30MHz~10GHz

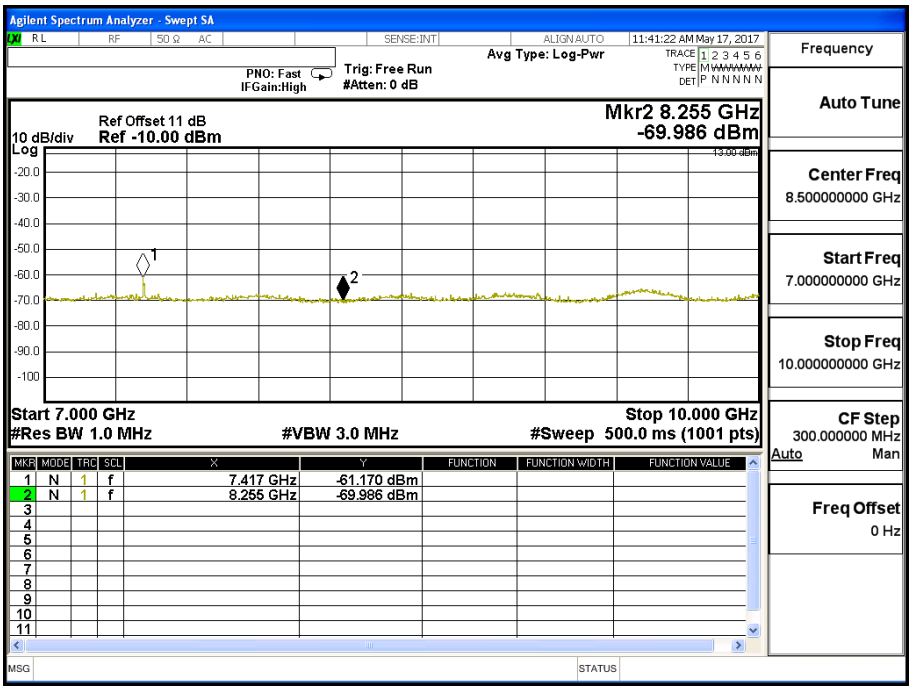
LTE-Band 5 (3M) 16QAM(1,0) CH20415

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-56.283	0.58	-55.703	-13
2474	-53.536	0.7	-52.836	-13
3296	-63.492	1.01	-62.482	-13
4120	-61.420	1.18	-60.240	-13
4953	-68.977	1.23	-67.747	-13
5779	-68.360	1.45	-66.910	-13
6604	-69.670	1.56	-68.110	-13
7417	-61.170	1.59	-59.580	-13
8255	-69.986	1.82	-68.166	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:40:05 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 3.296 GHz
-63.492 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.648 GHz -56.283 dBm
2 N 1 f 2.474 GHz -63.536 dBm
3 N 1 f 3.296 GHz -63.492 dBm
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

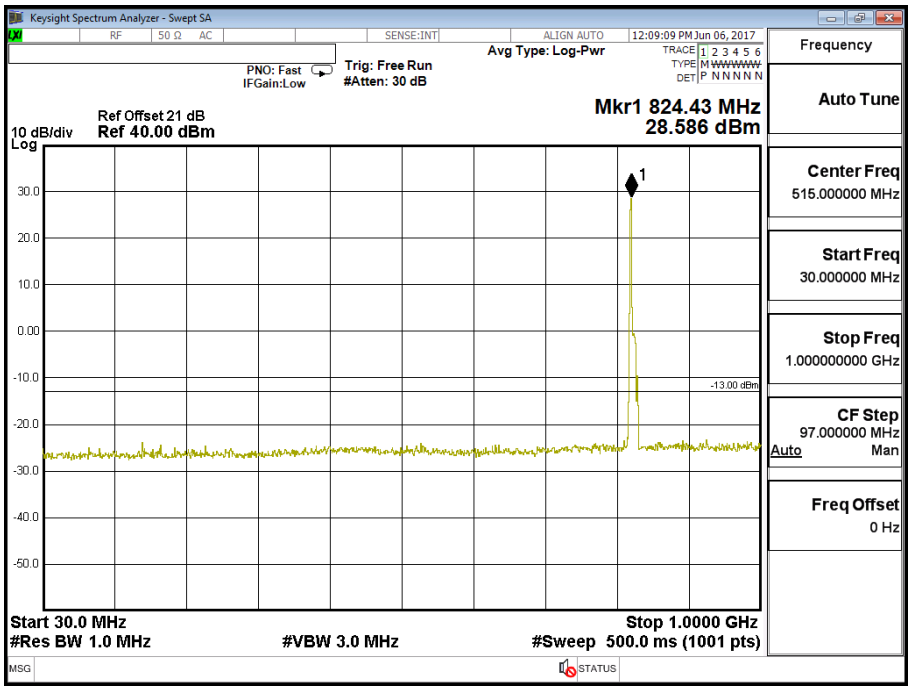

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:40:43 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.604 GHz
-69.670 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.120 GHz -61.420 dBm
2 N 1 f 4.953 GHz -68.977 dBm
3 N 1 f 5.779 GHz -68.360 dBm
4 N 1 f 6.604 GHz -69.670 dBm
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

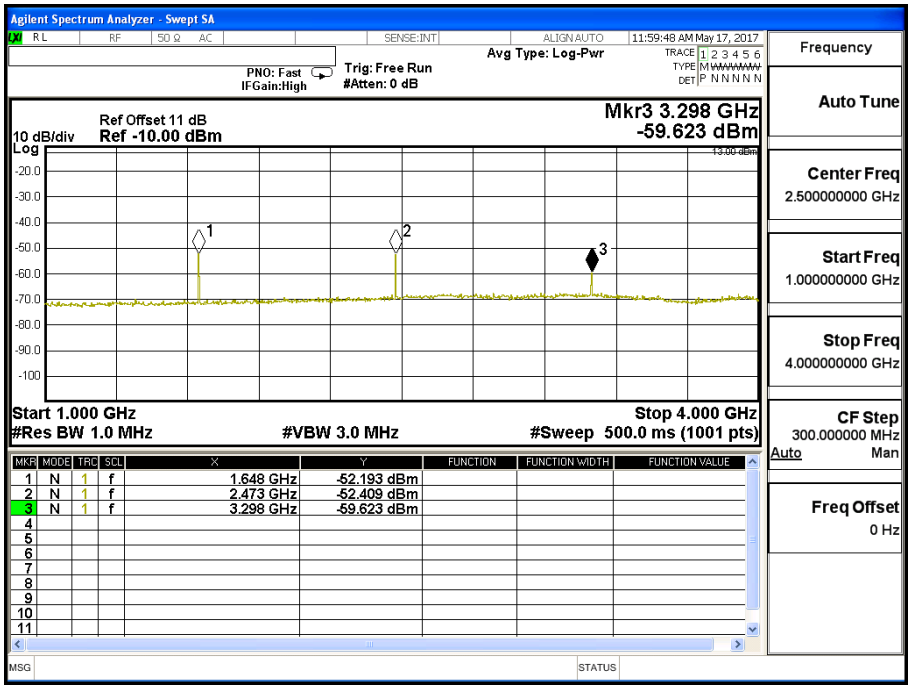

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:41:22 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 8.255 GHz
-69.986 dBm
13.00 dBm
Log
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.417 GHz -61.170 dBm
2 N 1 f 8.255 GHz -69.986 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

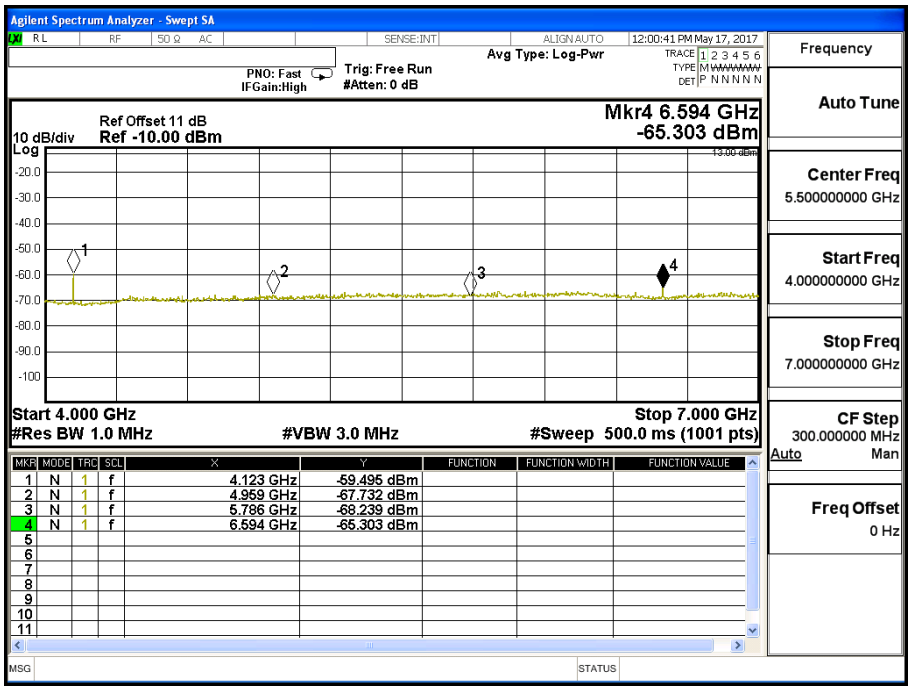
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (5M)	Test Range	30MHz~10GHz

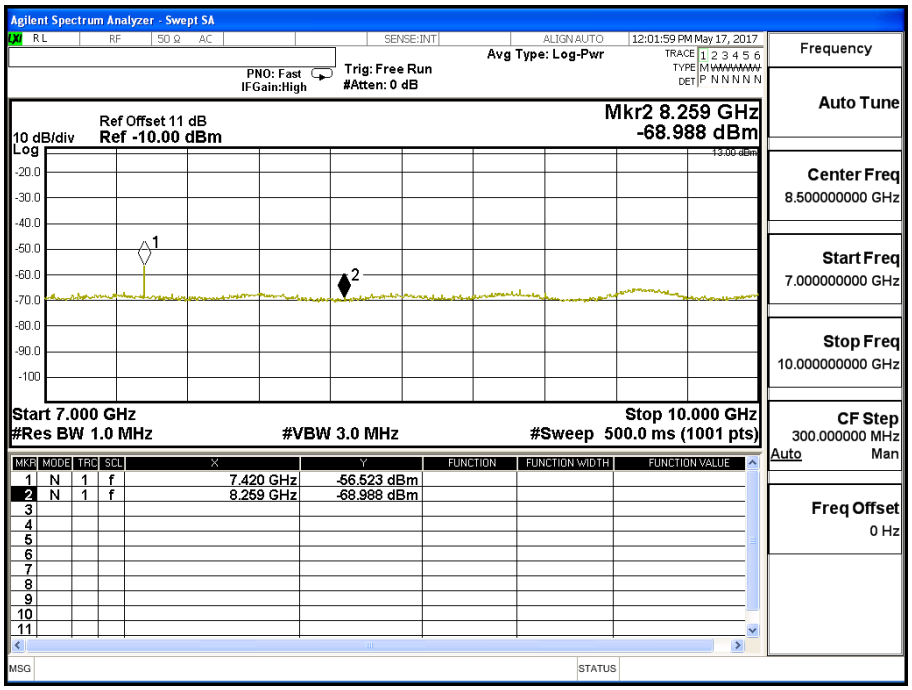
LTE-Band 5 (5M) QPSK(1,0) CH20425

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-52.193	0.58	-51.613	-13
2473	-52.409	0.7	-51.709	-13
3298	-59.623	1.01	-58.613	-13
4123	-59.495	1.18	-58.315	-13
4959	-67.732	1.23	-66.502	-13
5786	-68.239	1.45	-66.789	-13
6594	-65.303	1.56	-63.743	-13
7420	-56.523	1.59	-54.933	-13
8259	-68.988	1.82	-67.168	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:59:48 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 3.298 GHz
-59.623 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.648 GHz -52.193 dBm
2 N 1 f 2.473 GHz -52.409 dBm
3 N 1 f 3.298 GHz -59.623 dBm
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

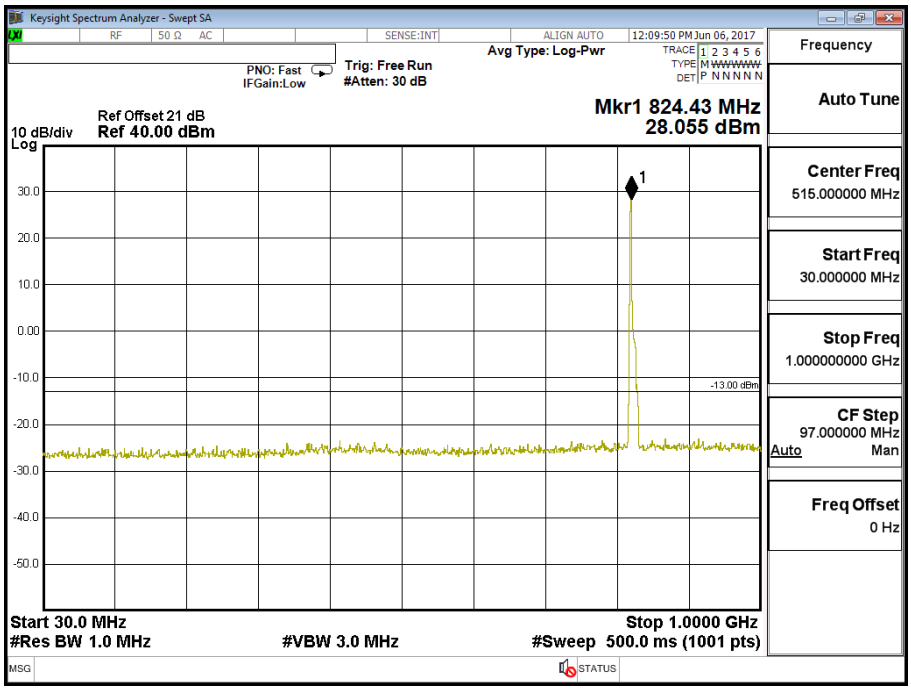

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:00:41 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.594 GHz
-65.303 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.123 GHz -59.495 dBm
2 N 1 f 4.959 GHz -67.732 dBm
3 N 1 f 5.786 GHz -68.239 dBm
4 N 1 f 6.594 GHz -65.303 dBm
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

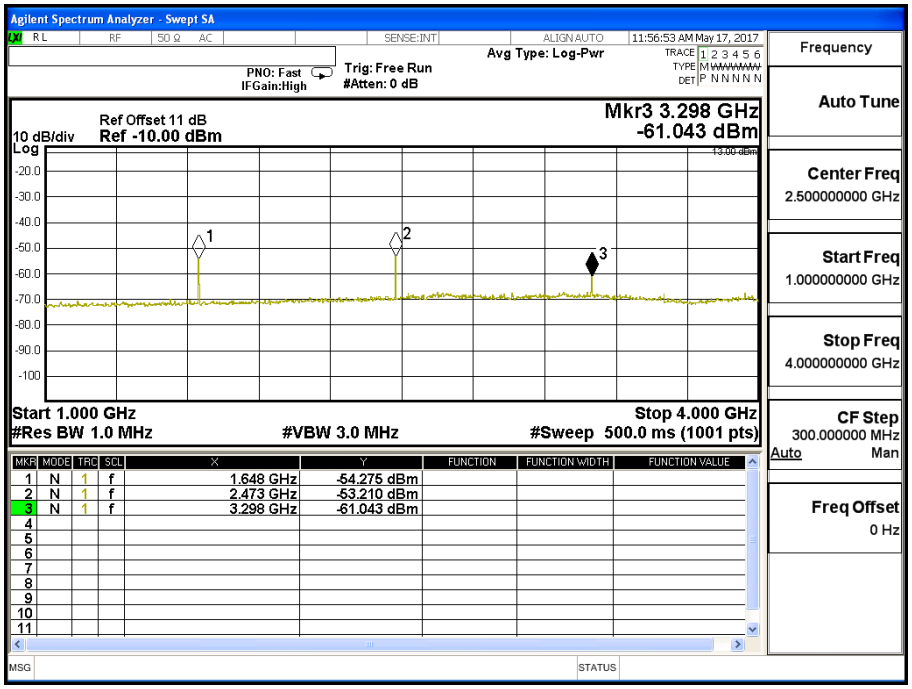

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:01:59 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 8.259 GHz
-68.988 dBm
13.00 dBm
Log
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
1
2
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.420 GHz -56.523 dBm
2 N 1 f 8.259 GHz -68.988 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

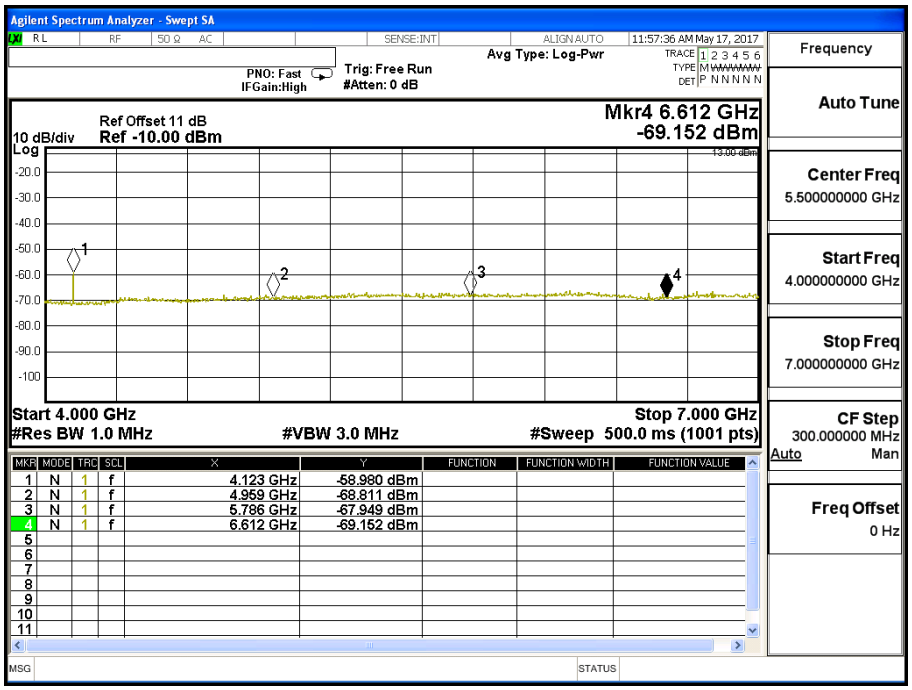
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (5M)	Test Range	30MHz~10GHz

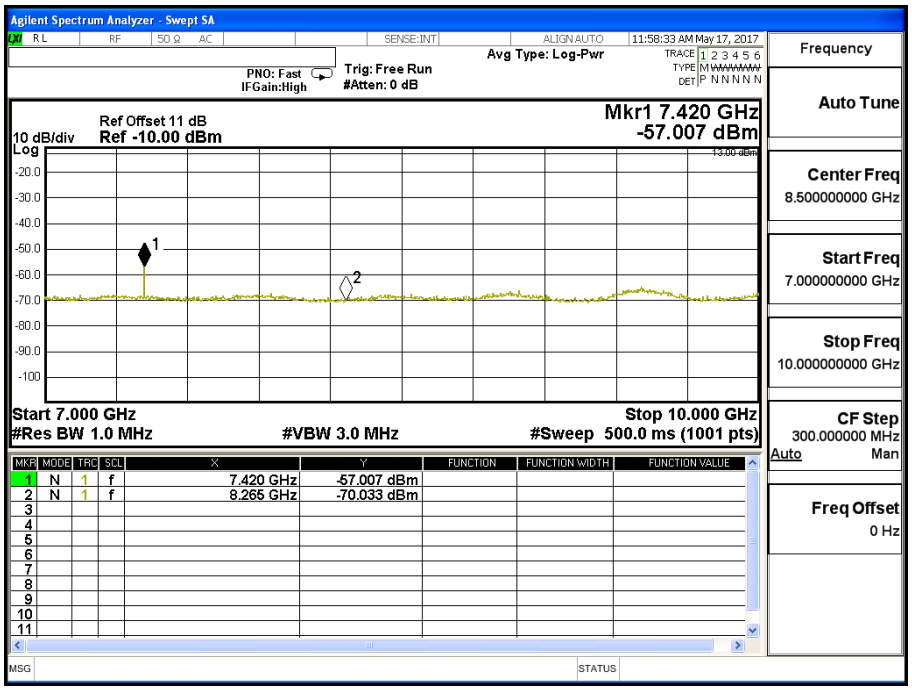
LTE-Band 5 (5M) 16QAM(1,0) CH20425

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-54.275	0.58	-53.695	-13
2473	-53.210	0.7	-52.510	-13
3298	-61.043	1.01	-60.033	-13
4123	-58.980	1.18	-57.800	-13
4959	-68.811	1.23	-67.581	-13
5786	-67.949	1.45	-66.499	-13
6612	-69.152	1.56	-67.592	-13
7420	-57.007	1.59	-55.417	-13
8265	-70.033	1.82	-68.213	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:56:53 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 3.298 GHz
-61.043 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.648 GHz -54.275 dBm
2 N 1 f 2.473 GHz -53.210 dBm
3 N 1 f 3.298 GHz -61.043 dBm
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

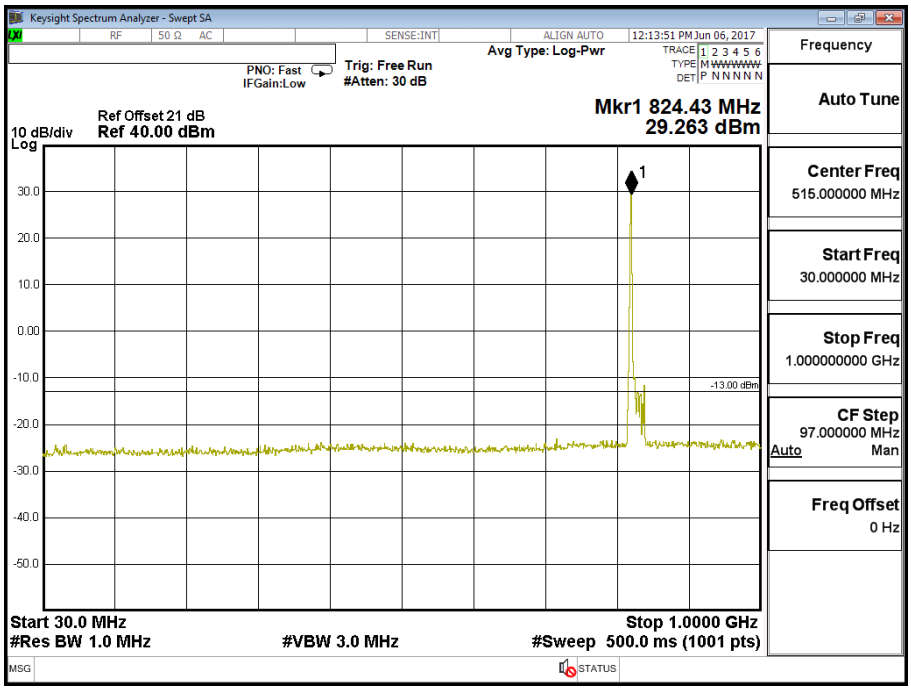

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:57:36 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.612 GHz
-69.152 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.123 GHz -68.980 dBm
2 N 1 f 4.959 GHz -68.811 dBm
3 N 1 f 5.786 GHz -67.949 dBm
4 N 1 f 6.612 GHz -69.152 dBm
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

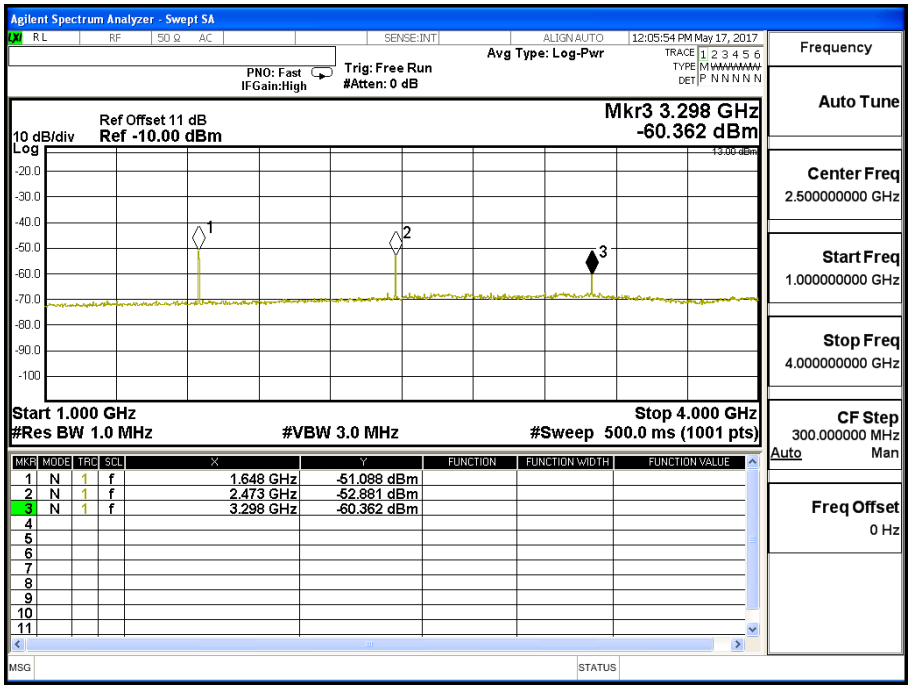

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:58:33 AM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr1 7.420 GHz
-57.007 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
1
2
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.420 GHz -57.007 dBm
2 N 1 f 8.265 GHz -70.033 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

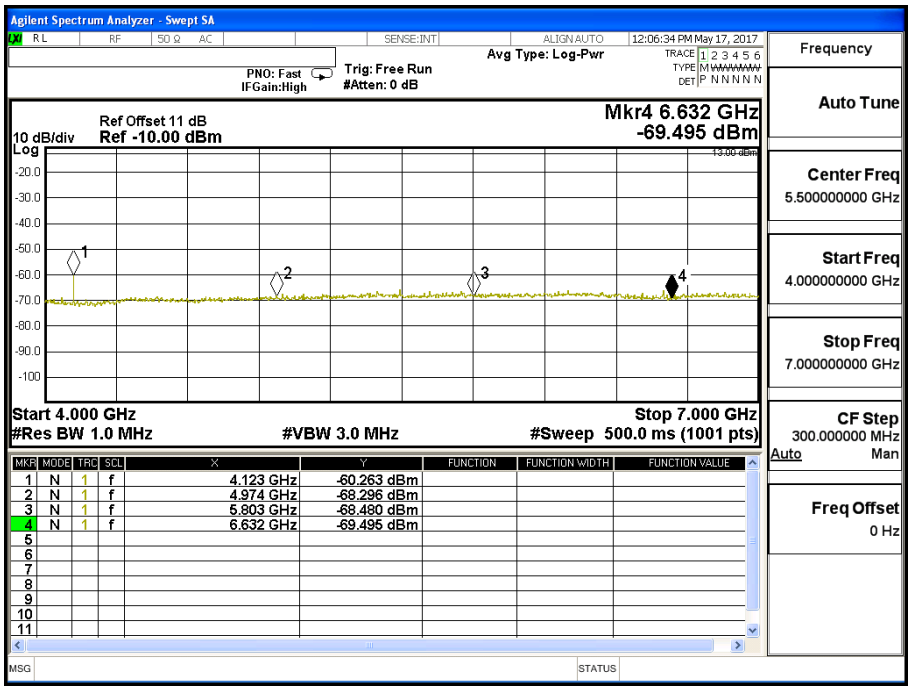
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (10M)	Test Range	30MHz~10GHz

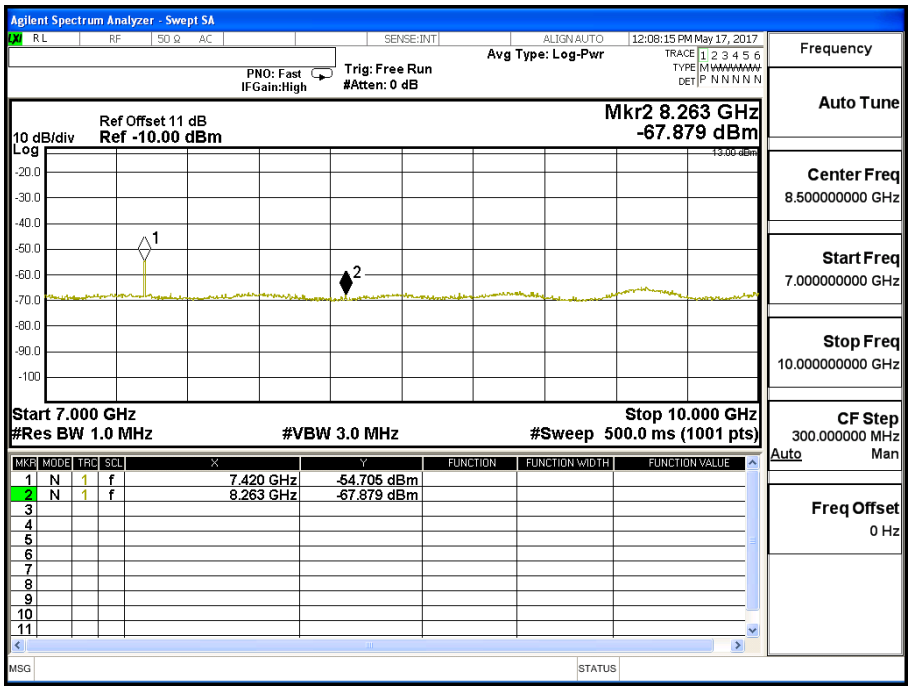
LTE-Band 5 (10M) QPSK(1,0) CH20450

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-51.088	0.58	-50.508	-13
2473	-52.881	0.7	-52.181	-13
3298	-60.362	1.01	-59.352	-13
4123	-60.263	1.18	-59.083	-13
4974	-68.296	1.23	-67.066	-13
5803	-68.480	1.45	-67.030	-13
6632	-69.495	1.56	-67.935	-13
7420	-54.705	1.59	-53.115	-13
8263	-67.879	1.82	-66.059	-13




Agilent Spectrum Analyzer - Swept SA
12:05:54 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 3.298 GHz
-60.362 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.648 GHz -51.088 dBm
2 N 1 f 2.473 GHz -52.881 dBm
3 N 1 f 3.298 GHz -60.362 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

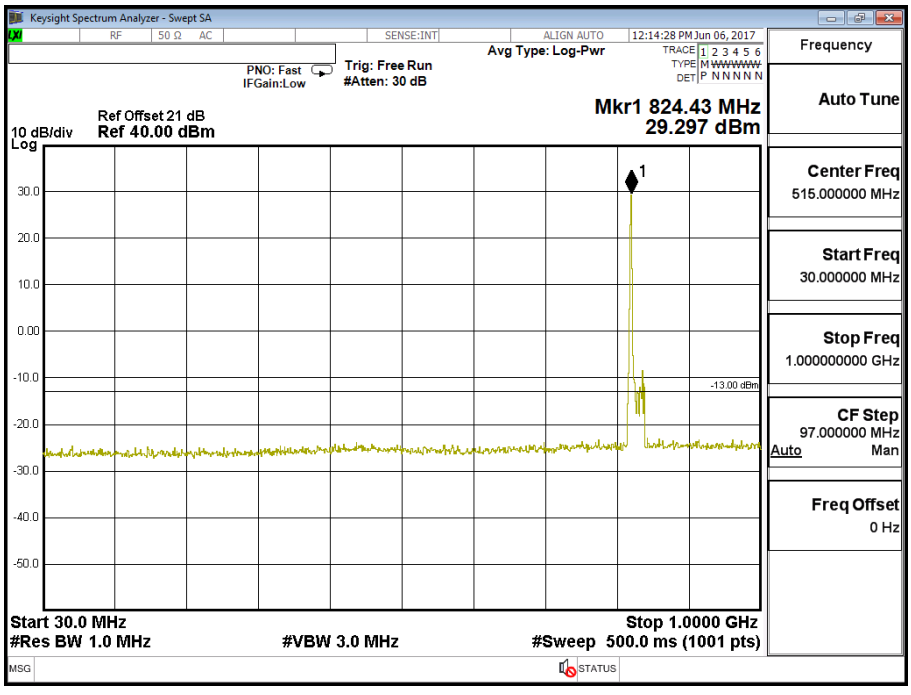

Agilent Spectrum Analyzer - Swept SA
12:06:34 PM May 17, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.632 GHz
-69.495 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.123 GHz -60.263 dBm
2 N 1 f 4.974 GHz -68.296 dBm
3 N 1 f 5.803 GHz -68.480 dBm
4 N 1 f 6.632 GHz -69.495 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

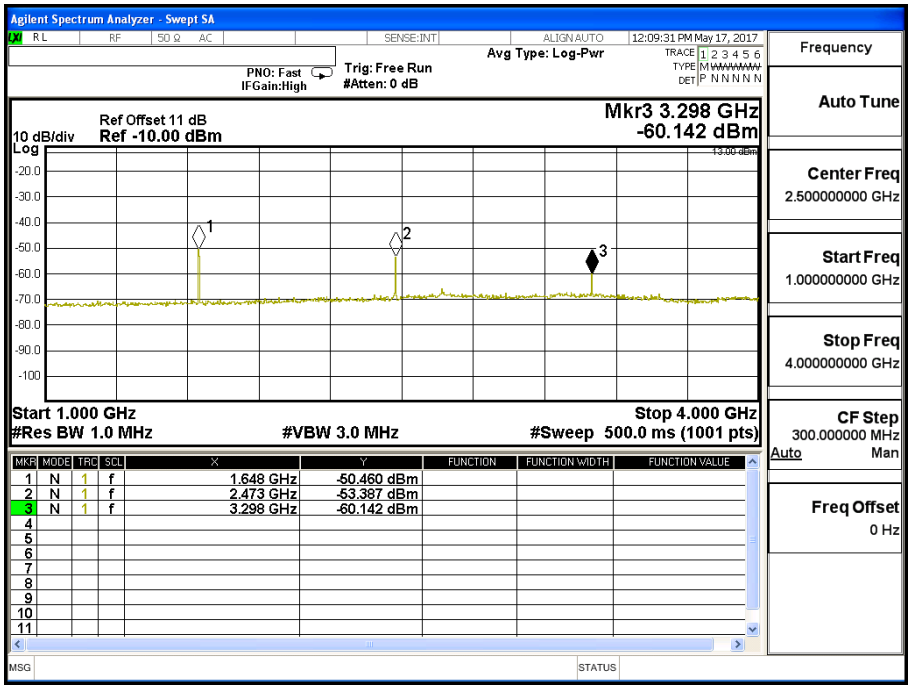

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:08:15 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 8.263 GHz
-67.879 dBm
13.00 dBm
Log
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.420 GHz -54.705 dBm
2 N 1 f 8.263 GHz -67.879 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

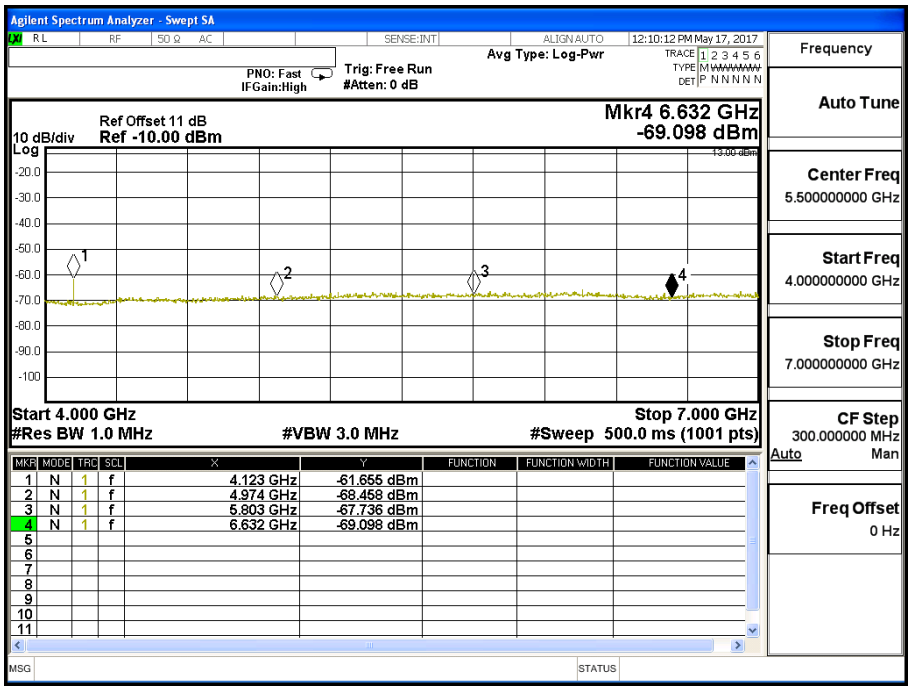
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 5 (10M)	Test Range	30MHz~10GHz

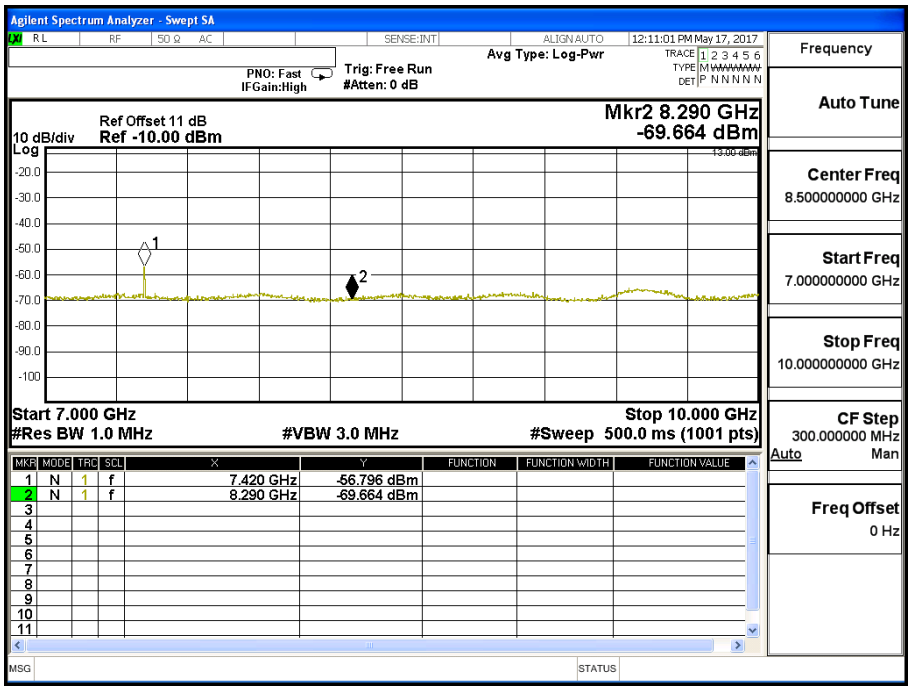
LTE-Band 5 (10M) 16QAM(1,0) CH20450

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1648	-50.460	0.58	-49.880	-13
2473	-53.387	0.7	-52.687	-13
3298	-60.142	1.01	-59.132	-13
4123	-61.655	1.18	-60.475	-13
4974	-68.458	1.23	-67.228	-13
5803	-67.736	1.45	-66.286	-13
6632	-69.098	1.56	-67.538	-13
7420	-56.796	1.59	-55.206	-13
8290	-69.664	1.82	-67.844	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:09:31 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr3 3.298 GHz
-60.142 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.648 GHz -50.460 dBm
2 N 1 f 2.473 GHz -53.387 dBm
3 N 1 f 3.298 GHz -60.142 dBm
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

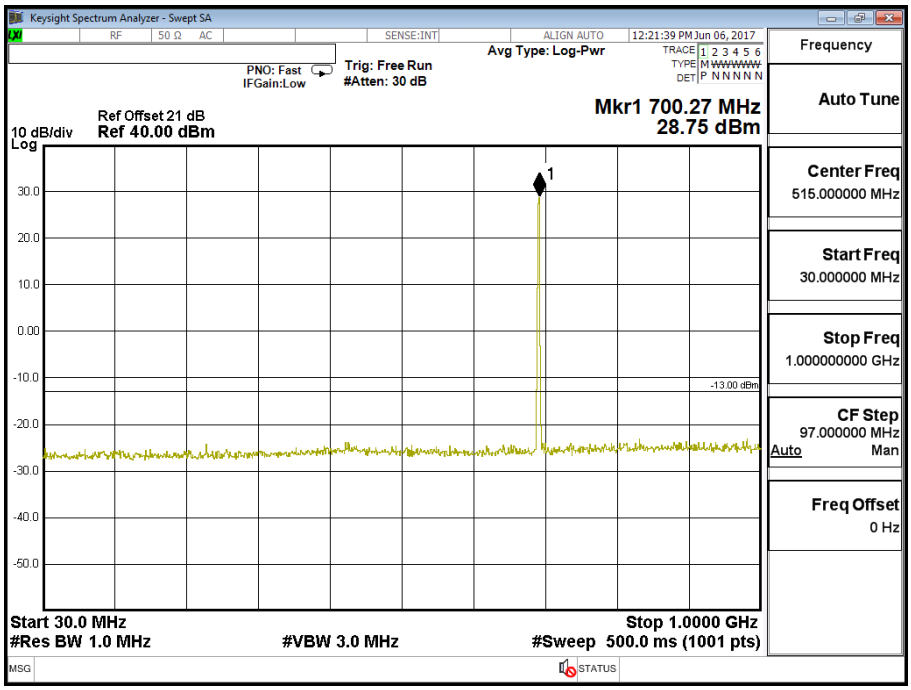

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:10:12 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr4 6.632 GHz
-69.098 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.123 GHz -61.655 dBm
2 N 1 f 4.974 GHz -68.458 dBm
3 N 1 f 5.803 GHz -67.736 dBm
4 N 1 f 6.632 GHz -69.098 dBm
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

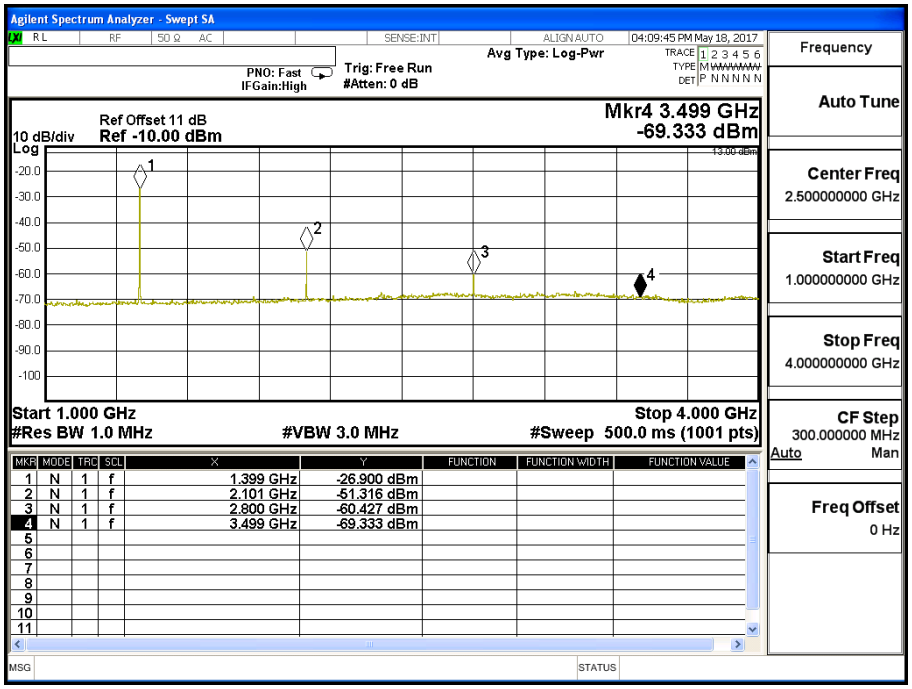

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:11:01 PM May 17, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 8.290 GHz
-69.664 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.420 GHz -56.796 dBm
2 N 1 f 8.290 GHz -69.664 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

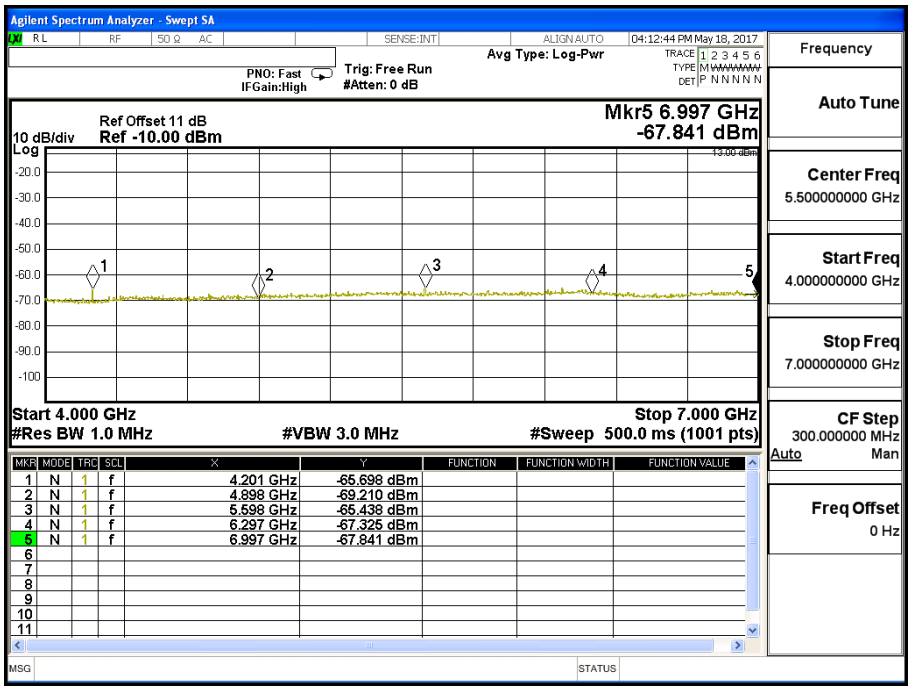
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (1.4M)	Test Range	30MHz~10GHz

LTE-Band 12 (1.4M) QPSK(1,5) CH23017

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.900	0.58	-26.320	-13
2101	-51.316	0.7	-50.616	-13
2800	-60.427	1.01	-59.417	-13
3499	-69.333	1.18	-68.153	-13
4201	-65.698	1.23	-64.468	-13
4898	-69.210	1.45	-67.760	-13
5598	-65.438	1.56	-63.878	-13
6297	-67.325	1.59	-65.735	-13
6997	-67.841	1.82	-66.021	-13



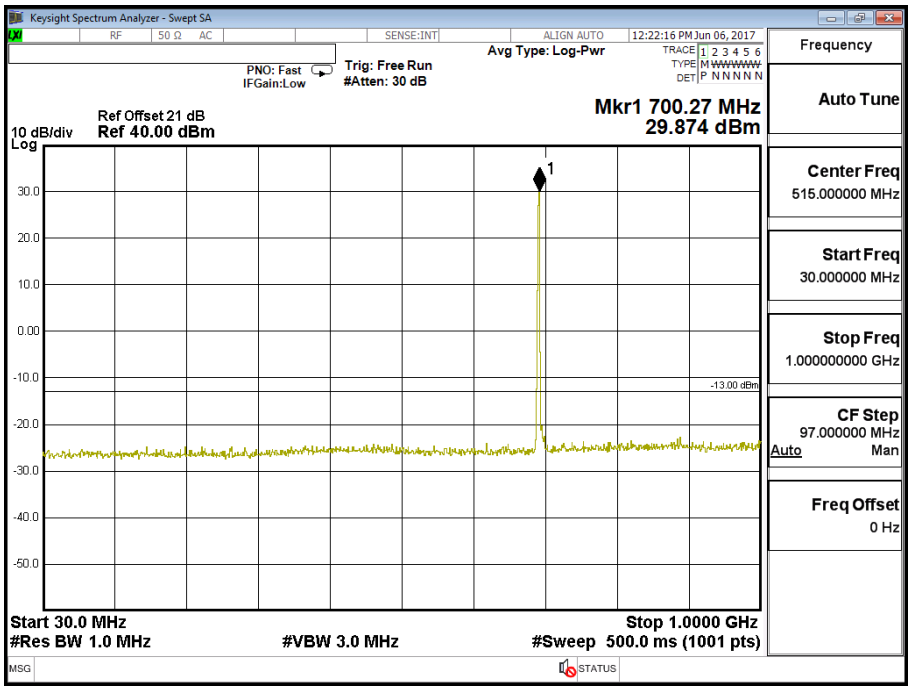

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:09:45 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr4 3.499 GHz
-69.333 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.399 GHz -26.900 dBm
2 N 1 f 2.101 GHz -51.316 dBm
3 N 1 f 2.800 GHz -60.427 dBm
4 N 1 f 3.499 GHz -69.333 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

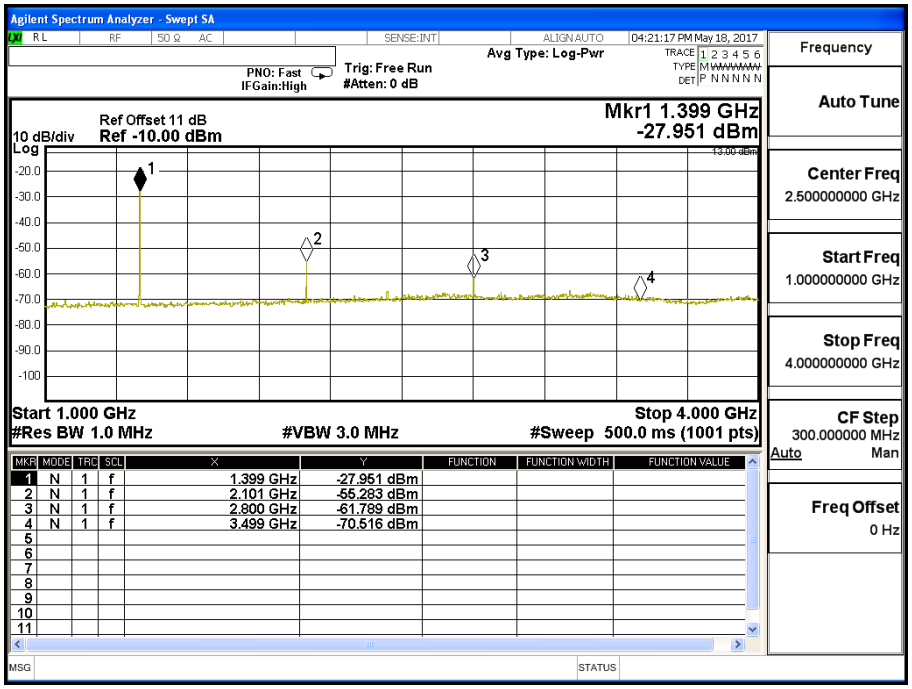

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:12:44 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr5 6.997 GHz
-67.841 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.201 GHz -65.698 dBm
2 N 1 f 4.898 GHz -69.210 dBm
3 N 1 f 5.598 GHz -65.438 dBm
4 N 1 f 6.297 GHz -67.325 dBm
5 N 1 f 6.997 GHz -67.841 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

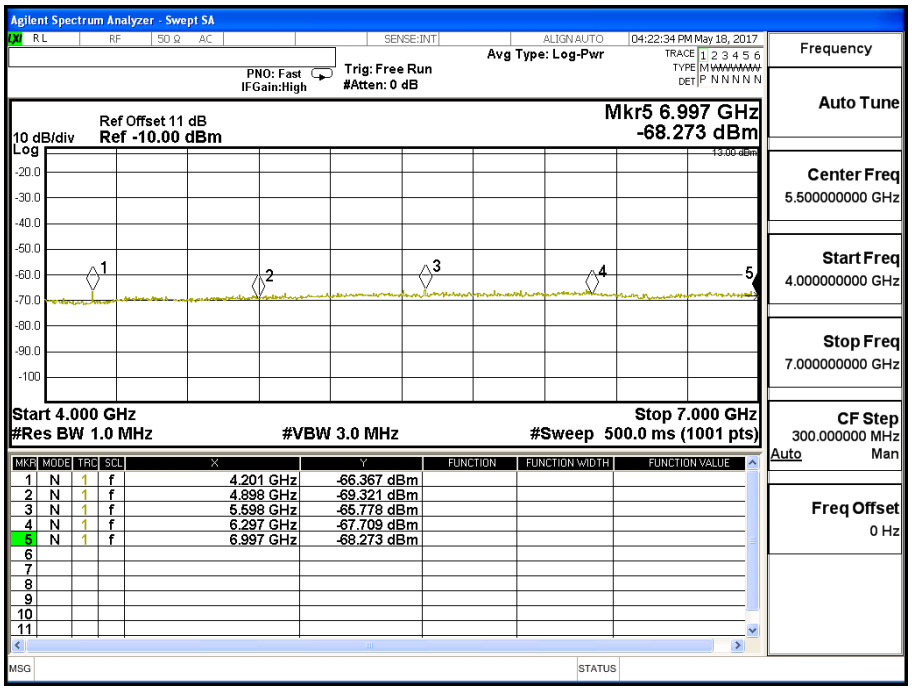
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (1.4M)	Test Range	30MHz~10GHz

LTE-Band 12 (1.4M) 16QAM(1,5) CH23017

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-27.951	0.58	-27.371	-13
2101	-55.283	0.7	-54.583	-13
2800	-61.789	1.01	-60.779	-13
3499	-70.516	1.18	-69.336	-13
4201	-66.367	1.23	-65.137	-13
4898	-69.321	1.45	-67.871	-13
5598	-65.778	1.56	-64.218	-13
6297	-67.709	1.59	-66.119	-13
6997	-68.273	1.82	-66.453	-13



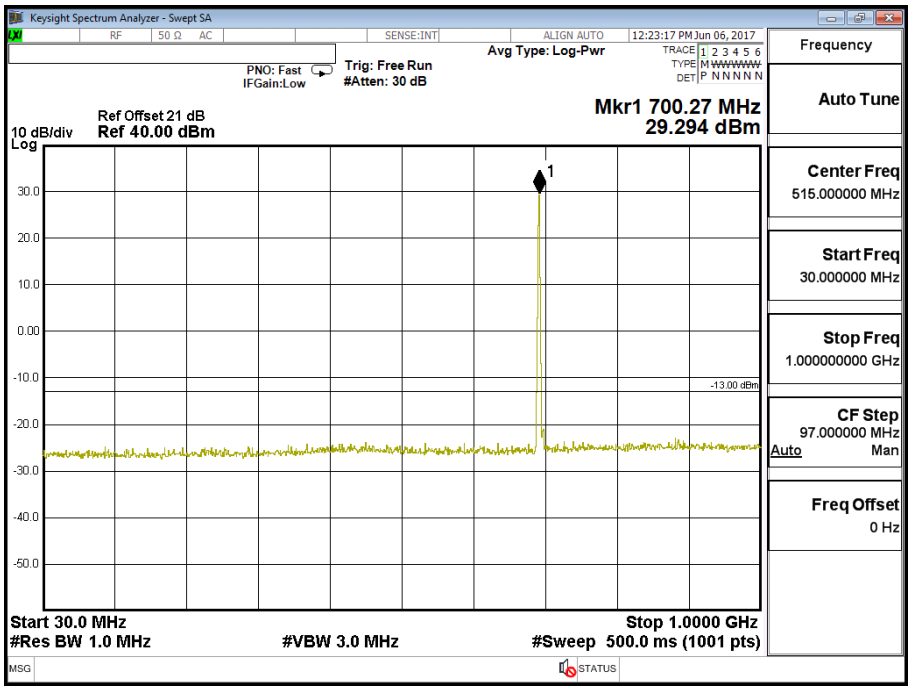

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:21:17 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr1 1.399 GHz
-27.951 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.399 GHz -27.951 dBm
2 N 1 f 2.101 GHz -65.283 dBm
3 N 1 f 2.800 GHz -61.789 dBm
4 N 1 f 3.499 GHz -70.516 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

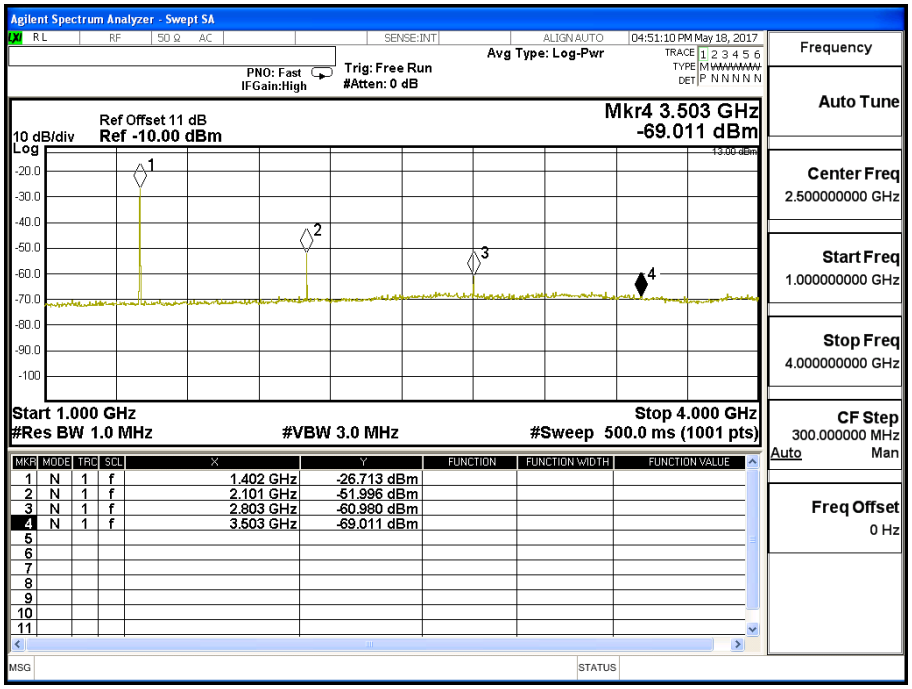

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:22:34 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr5 6.997 GHz
-68.273 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.201 GHz -66.367 dBm
2 N 1 f 4.898 GHz -69.321 dBm
3 N 1 f 5.598 GHz -65.778 dBm
4 N 1 f 6.297 GHz -67.709 dBm
5 N 1 f 6.997 GHz -68.273 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

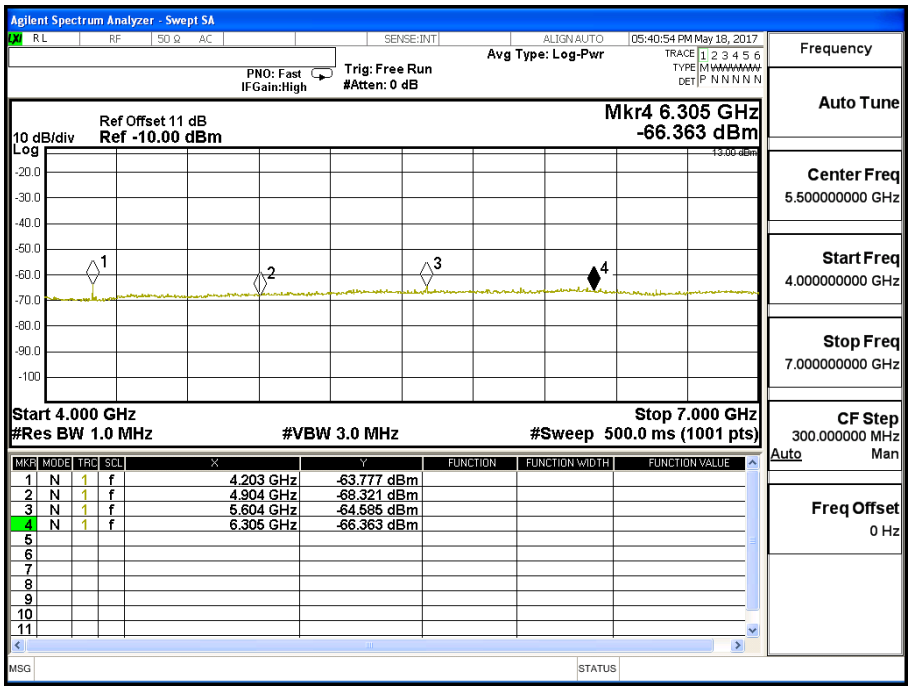
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (3M)	Test Range	30MHz~10GHz

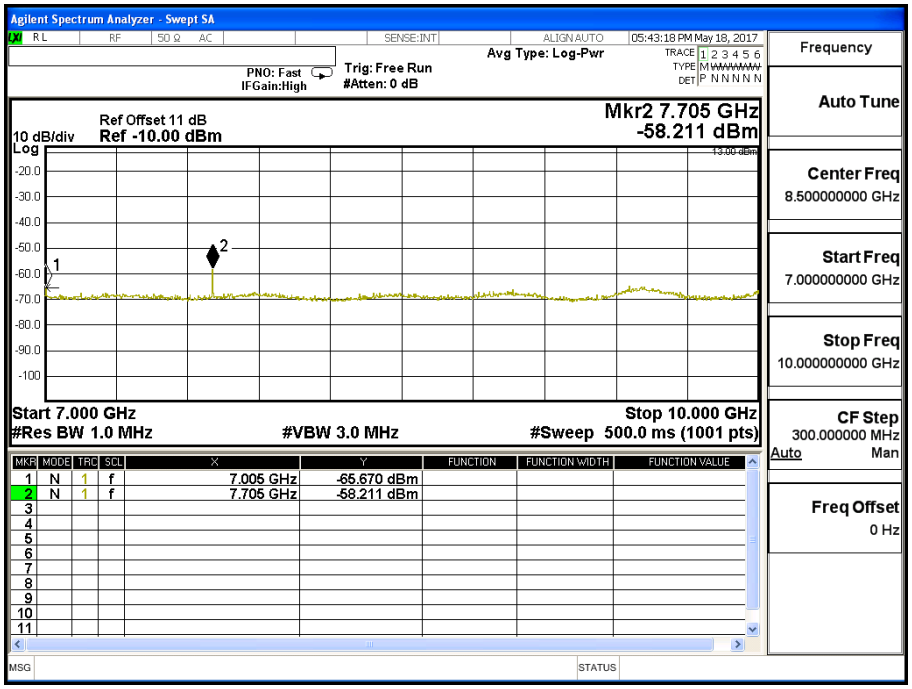
LTE-Band 12 (3M) QPSK(1,7) CH23025

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1402	-26.713	0.58	-26.133	-13
2101	-51.996	0.7	-51.296	-13
2803	-60.980	1.01	-59.970	-13
3503	-69.011	1.18	-67.831	-13
4203	-63.777	1.23	-62.547	-13
4904	-68.321	1.45	-66.871	-13
5604	-64.585	1.56	-63.025	-13
6305	-66.363	1.59	-64.773	-13
7005	-65.670	1.82	-63.850	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:51:10 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr4 3.503 GHz
-69.011 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.402 GHz -26.713 dBm
2 N 1 f 2.101 GHz -51.996 dBm
3 N 1 f 2.803 GHz -60.980 dBm
4 N 1 f 3.503 GHz -69.011 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

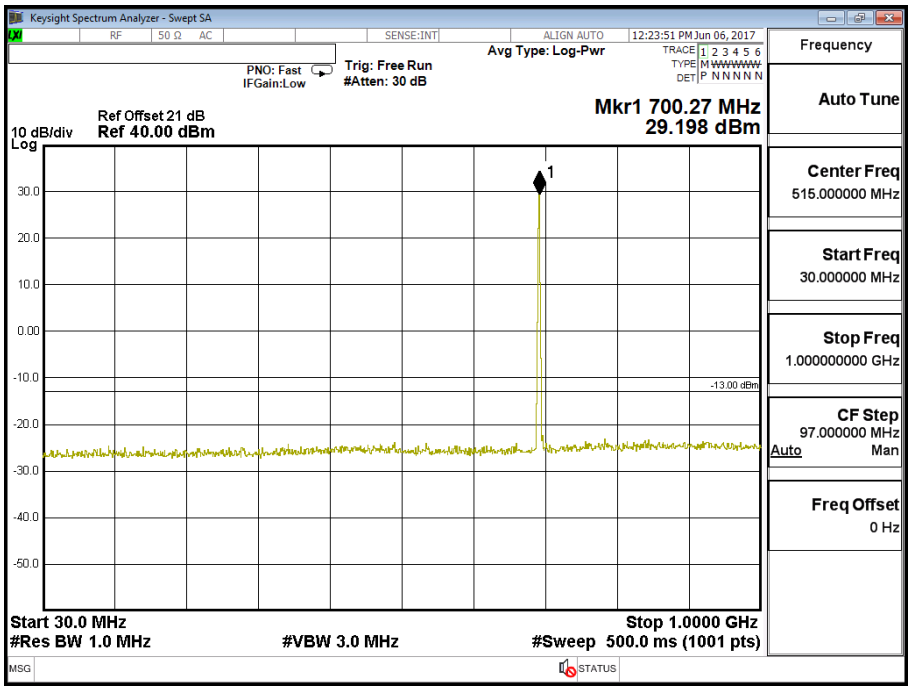

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:40:54 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Mkr4 6.305 GHz
-66.363 dBm
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.203 GHz -63.777 dBm
2 N 1 f 4.904 GHz -68.321 dBm
3 N 1 f 5.604 GHz -64.585 dBm
4 N 1 f 6.305 GHz -66.363 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

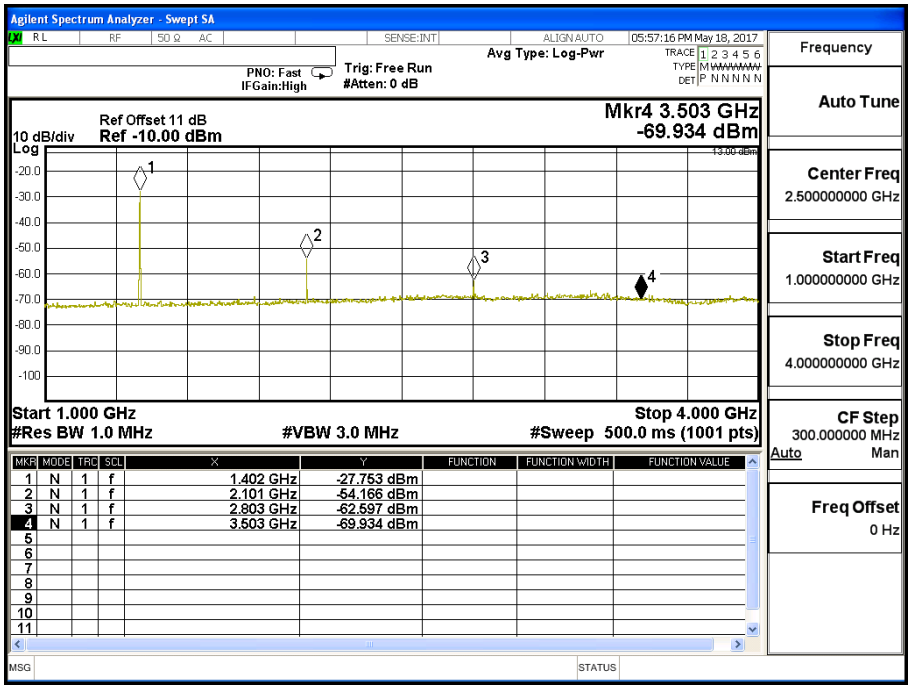

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
05:43:18 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 7.705 GHz
-58.211 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.005 GHz -65.670 dBm
2 N 1 f 7.705 GHz -58.211 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

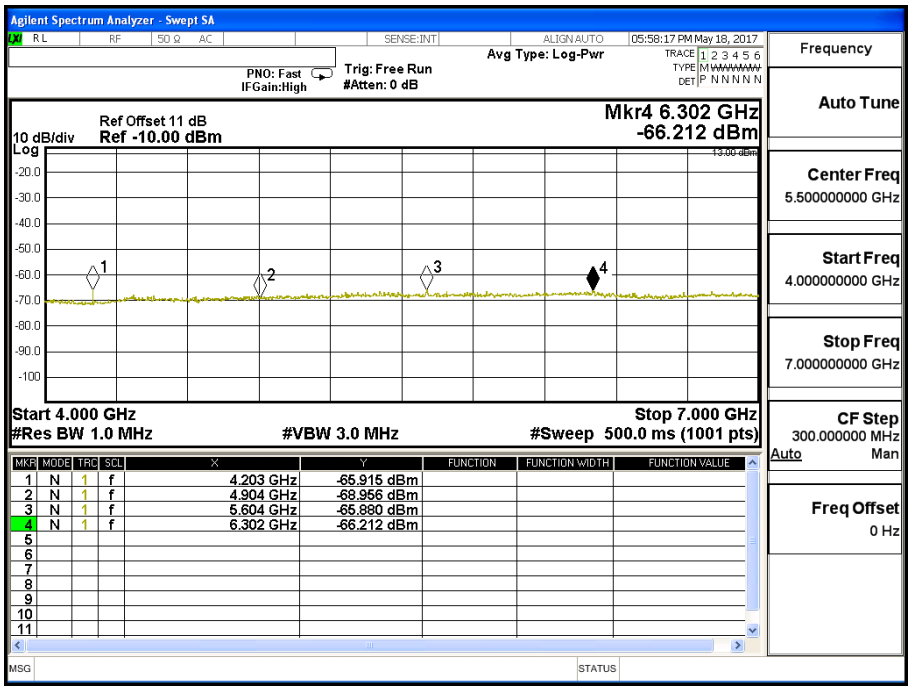
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (3M)	Test Range	30MHz~10GHz

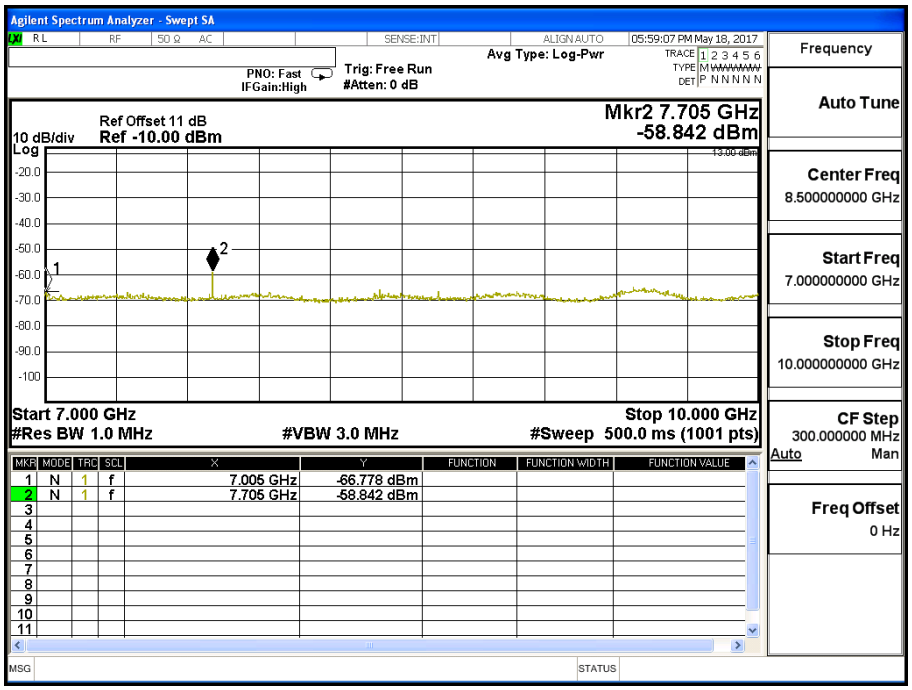
LTE-Band 12 (3M) 16QAM(1,7) CH23025

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1402	-27.753	0.58	-27.173	-13
2101	-54.166	0.7	-53.466	-13
2803	-62.597	1.01	-61.587	-13
3503	-69.934	1.18	-68.754	-13
4203	-65.915	1.23	-64.685	-13
4904	-68.956	1.45	-67.506	-13
5604	-65.880	1.56	-64.320	-13
6302	-66.212	1.59	-64.622	-13
7005	-66.778	1.82	-64.958	-13




Agilent Spectrum Analyzer - Swept SA
05:57:16 PM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.503 GHz
-69.934 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.402 GHz -27.753 dBm
2 N 1 f 2.101 GHz -64.166 dBm
3 N 1 f 2.803 GHz -62.597 dBm
4 N 1 f 3.503 GHz -69.934 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

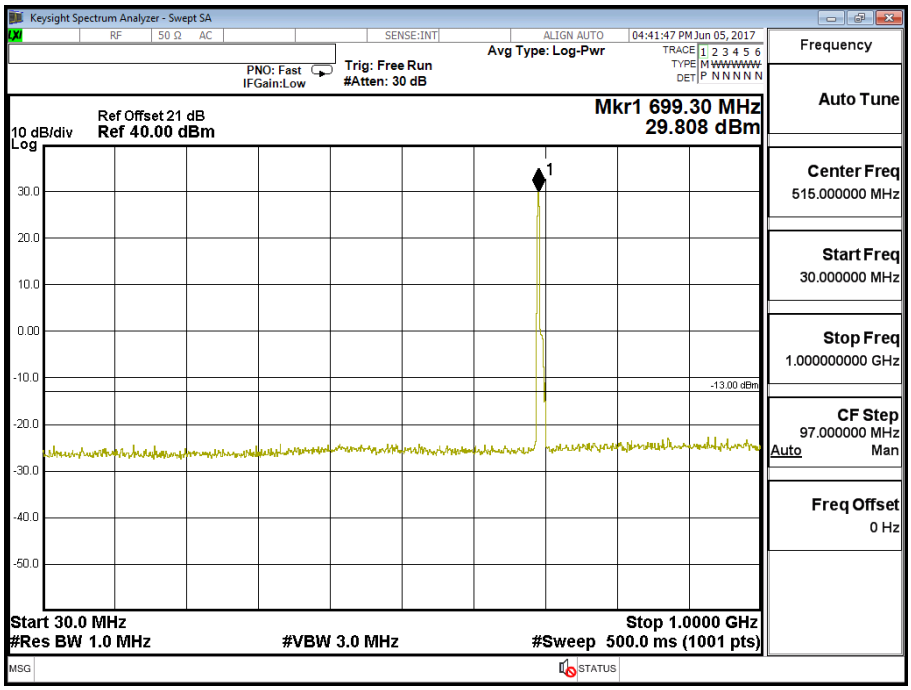

Agilent Spectrum Analyzer - Swept SA
05:58:17 PM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.302 GHz
-66.212 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.203 GHz -65.915 dBm
2 N 1 f 4.904 GHz -68.956 dBm
3 N 1 f 5.604 GHz -65.880 dBm
4 N 1 f 6.302 GHz -66.212 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

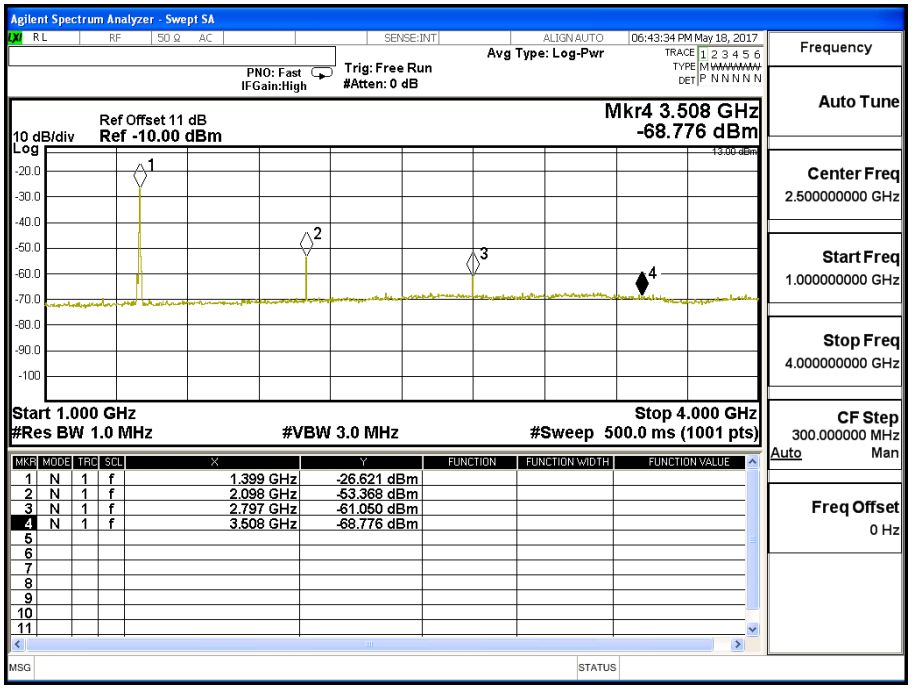

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:59:07 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 7.705 GHz
-58.842 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.005 GHz -66.778 dBm
2 N 1 f 7.705 GHz -58.842 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

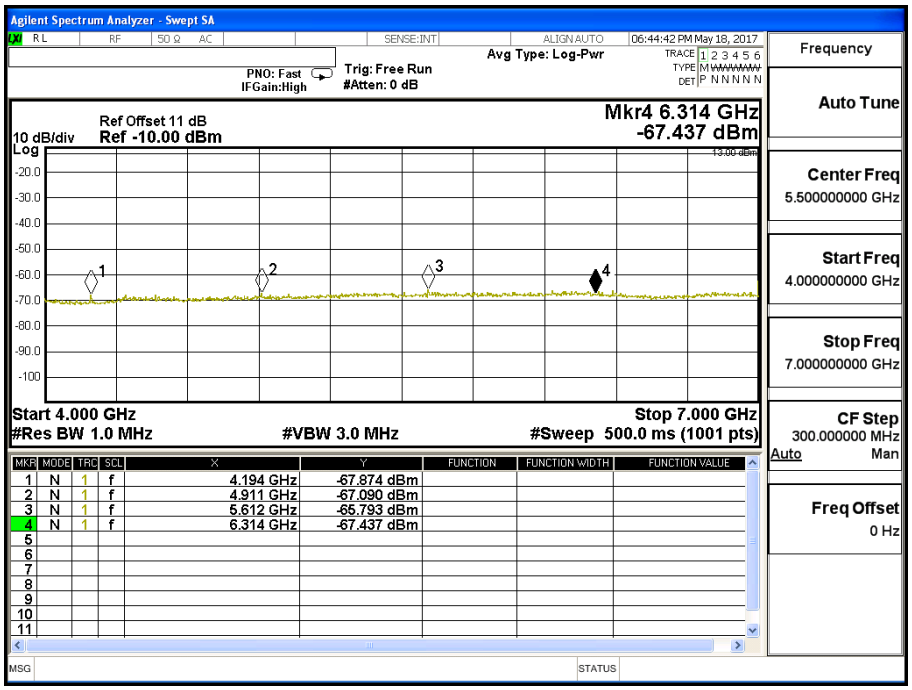
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (5M)	Test Range	30MHz~10GHz

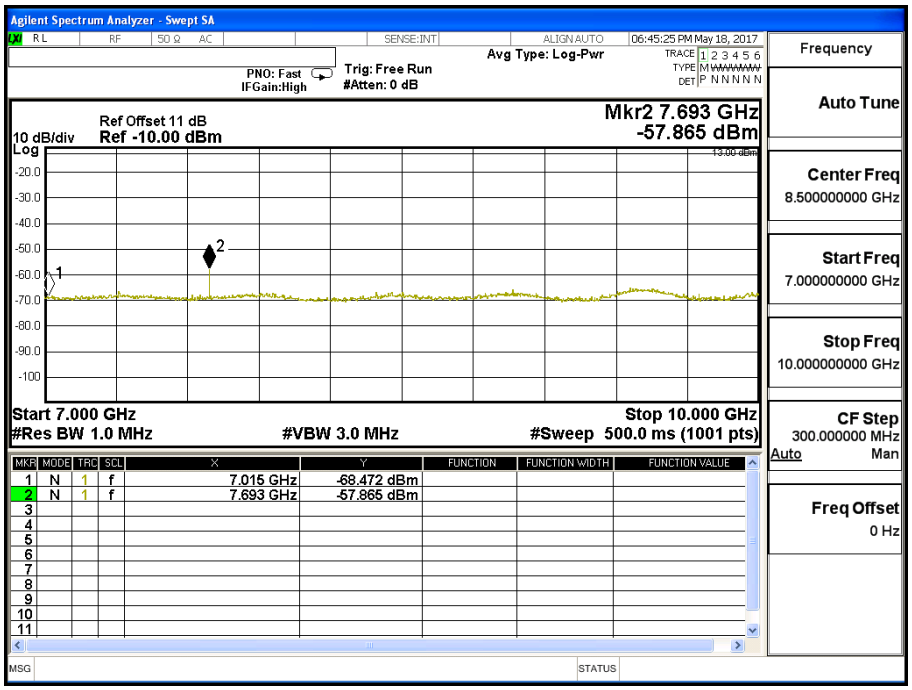
LTE-Band 12 (5M) QPSK(1,0) CH23035

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.621	0.58	-26.041	-13
2098	-53.368	0.7	-52.668	-13
2797	-61.050	1.01	-60.040	-13
3508	-68.776	1.18	-67.596	-13
4194	-67.874	1.23	-66.644	-13
4911	-67.090	1.45	-65.640	-13
5612	-65.793	1.56	-64.233	-13
6314	-67.437	1.59	-65.847	-13
7015	-68.472	1.82	-66.652	-13




Agilent Spectrum Analyzer - Swept SA
06:43:34 PM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.508 GHz
-68.776 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.399 GHz -26.621 dBm
2 N 1 f 2.098 GHz -53.368 dBm
3 N 1 f 2.797 GHz -61.050 dBm
4 N 1 f 3.508 GHz -68.776 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

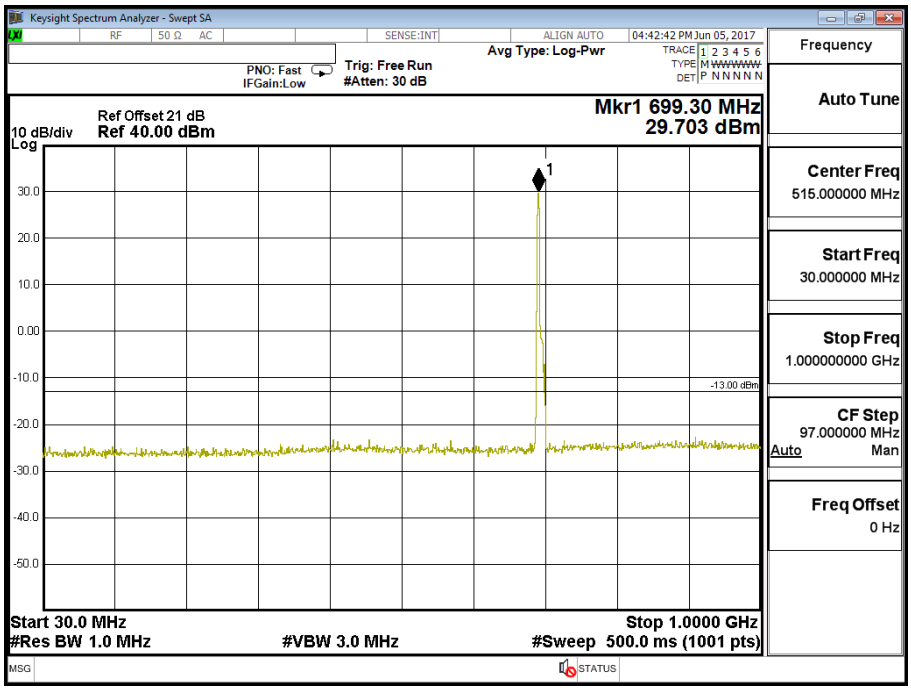

Agilent Spectrum Analyzer - Swept SA
06:44:42 PM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.314 GHz
-67.437 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.194 GHz -67.874 dBm
2 N 1 f 4.911 GHz -67.090 dBm
3 N 1 f 5.612 GHz -65.793 dBm
4 N 1 f 6.314 GHz -67.437 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

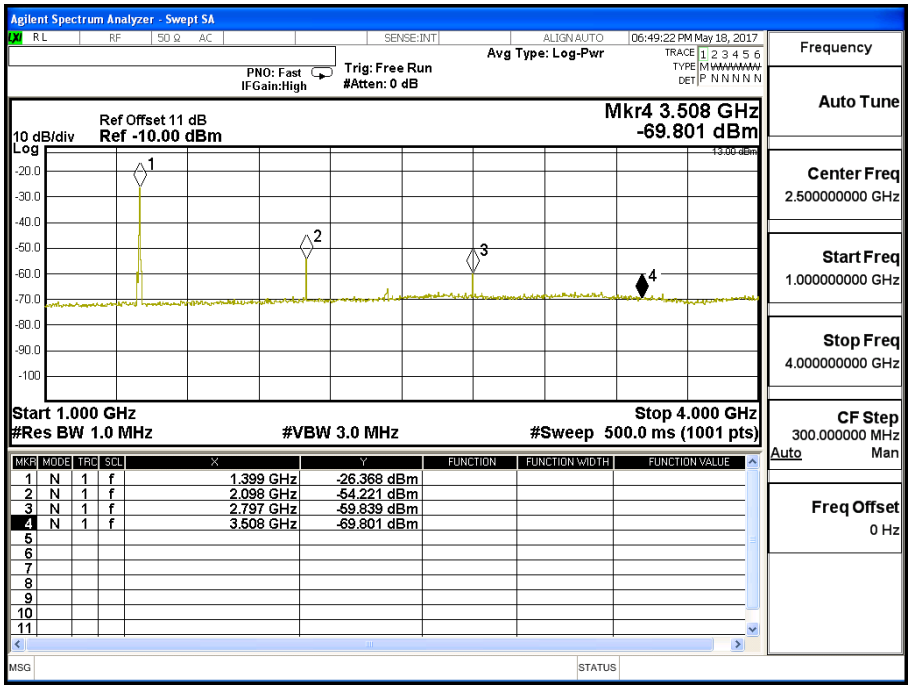

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:45:25 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 7.693 GHz
-57.865 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.015 GHz -68.472 dBm
2 N 1 f 7.693 GHz -57.865 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

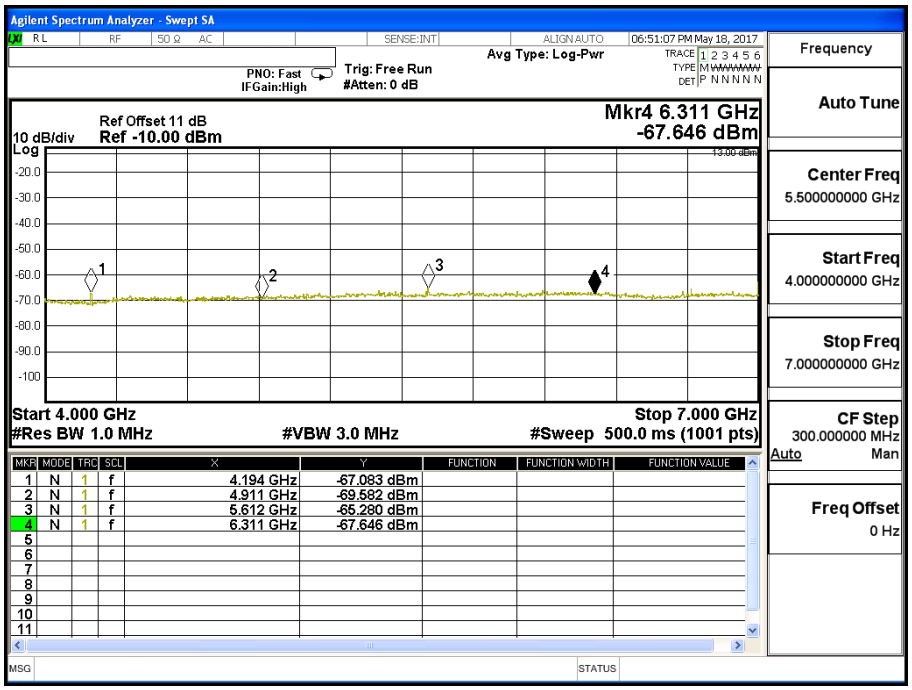
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (5M)	Test Range	30MHz~10GHz

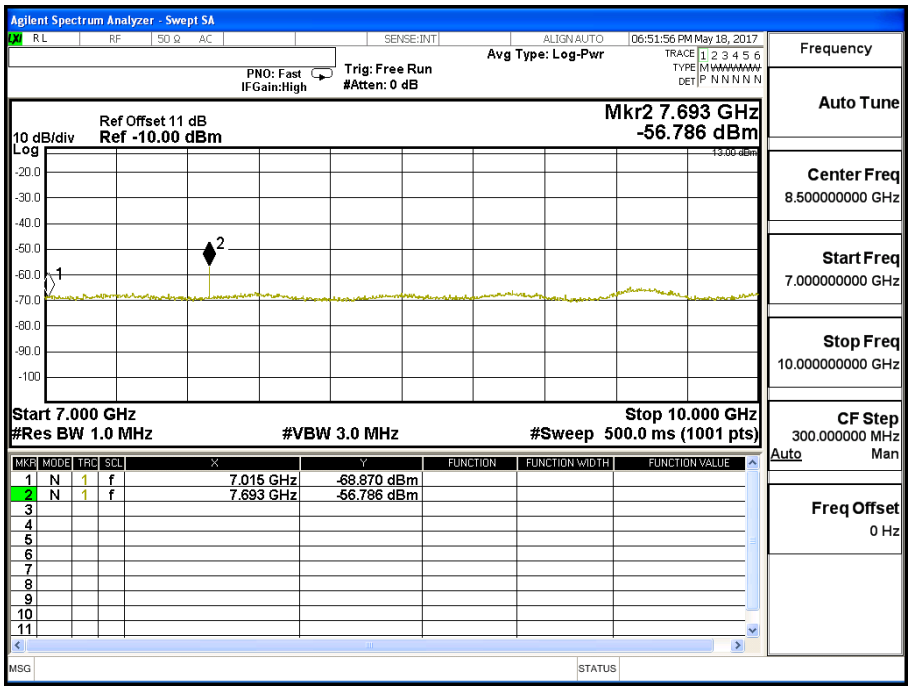
LTE-Band 12 (5M) 16QAM(1,0) CH23035

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.368	0.58	-25.788	-13
2098	-54.221	0.7	-53.521	-13
2797	-59.839	1.01	-58.829	-13
3508	-69.801	1.18	-68.621	-13
4194	-67.083	1.23	-65.853	-13
4911	-69.582	1.45	-68.132	-13
5612	-65.280	1.56	-63.720	-13
6311	-67.646	1.59	-66.056	-13
7015	-68.870	1.82	-67.050	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:49:22 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.508 GHz
-69.801 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.399 GHz -26.368 dBm
2 N 1 f 2.098 GHz -64.221 dBm
3 N 1 f 2.797 GHz -69.839 dBm
4 N 1 f 3.508 GHz -69.801 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

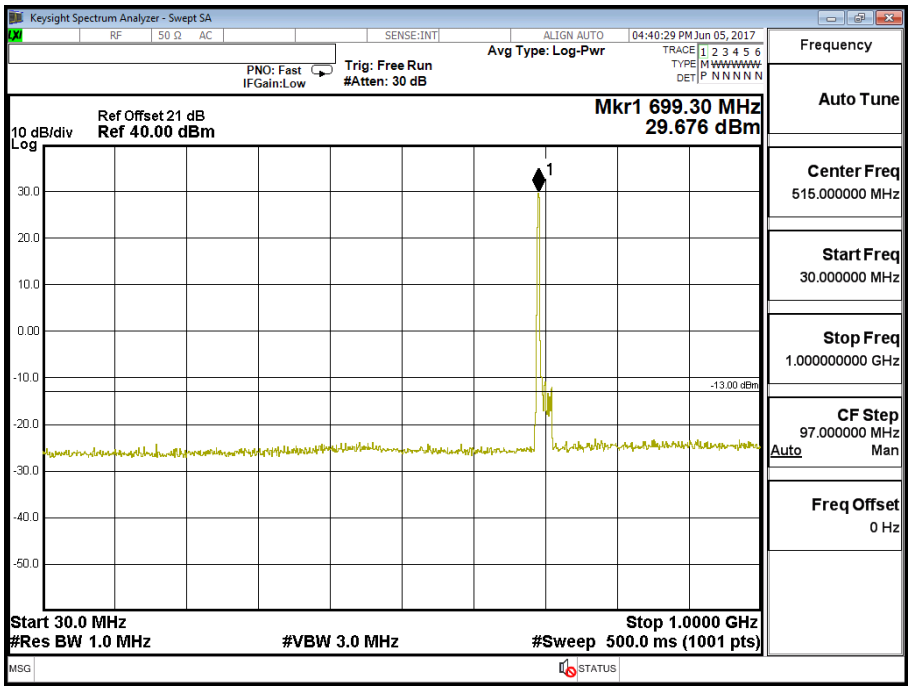

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:51:07 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 6.311 GHz
-67.646 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.194 GHz -67.083 dBm
2 N 1 f 4.911 GHz -69.582 dBm
3 N 1 f 5.612 GHz -65.280 dBm
4 N 1 f 6.311 GHz -67.646 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

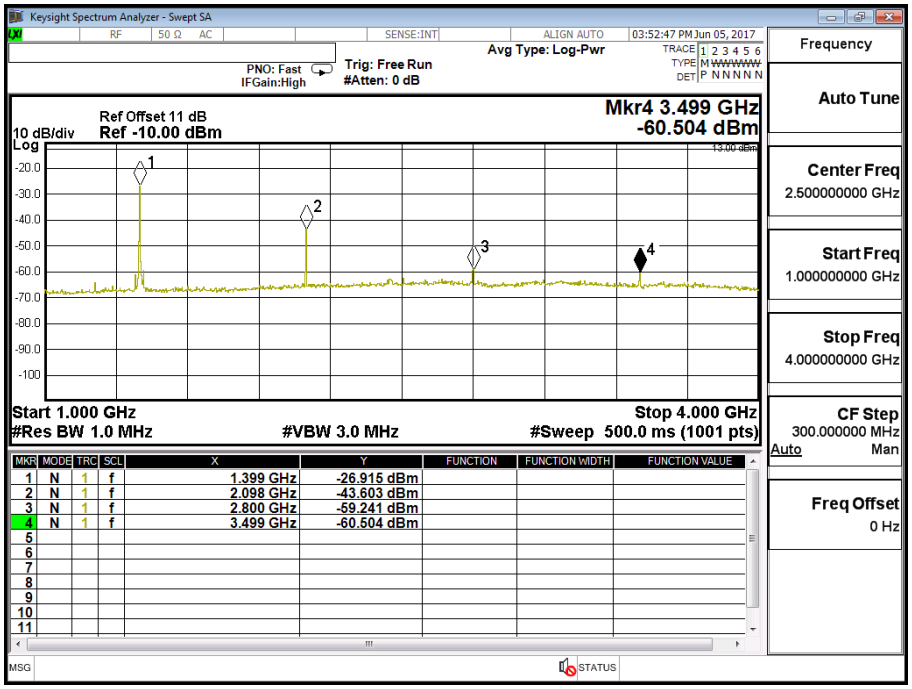

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:51:56 PM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 7.693 GHz
-56.786 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.015 GHz -68.870 dBm
2 N 1 f 7.693 GHz -56.786 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

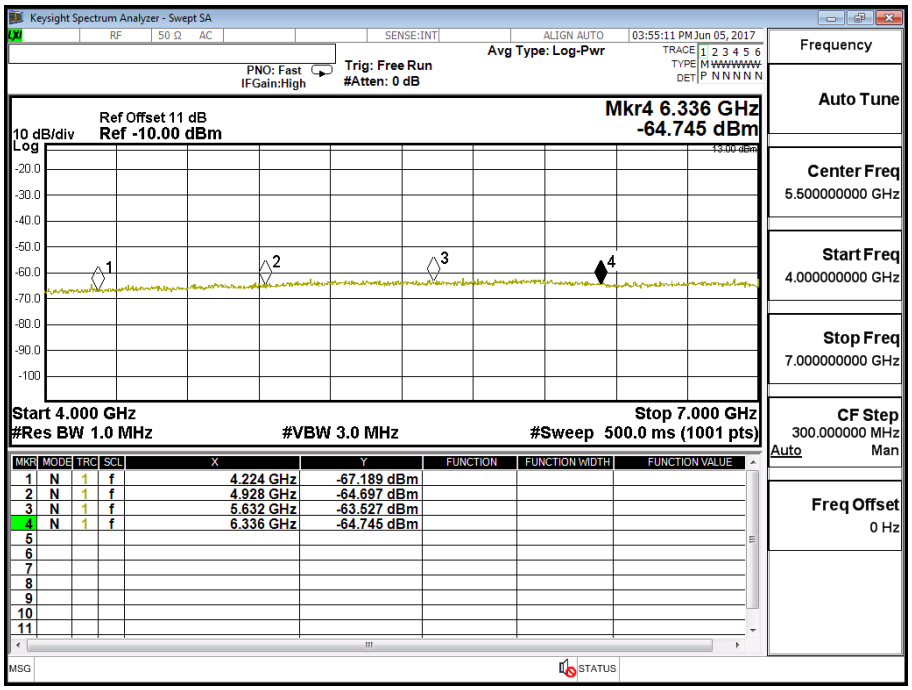
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (10M)	Test Range	30MHz~10GHz

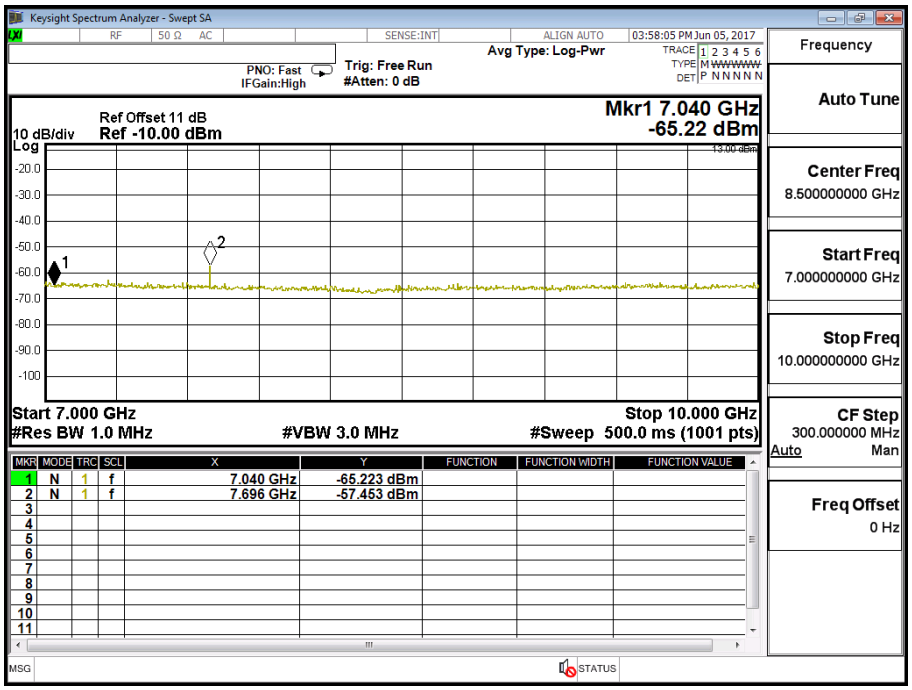
LTE-Band 12 (10M) QPSK(1,0) CH23060

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.915	0.58	-26.335	-13
2098	-43.603	0.7	-42.903	-13
2800	-59.241	1.01	-58.231	-13
3499	-60.504	1.18	-59.324	-13
4244	-67.189	1.23	-65.959	-13
4928	-64.697	1.45	-63.247	-13
5632	-63.527	1.56	-61.967	-13
6336	-64.745	1.59	-63.155	-13
7040	-65.223	1.82	-63.403	-13




Keysight Spectrum Analyzer - Swept SA
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
03:52:47 PM Jun 05, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div Ref -10.00 dBm
Mkr4 3.499 GHz
-60.504 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.399 GHz -26.915 dBm
2 N 1 f 2.098 GHz -43.603 dBm
3 N 1 f 2.800 GHz -59.241 dBm
4 N 1 f 3.499 GHz -60.504 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto Man
Freq Offset
0 Hz

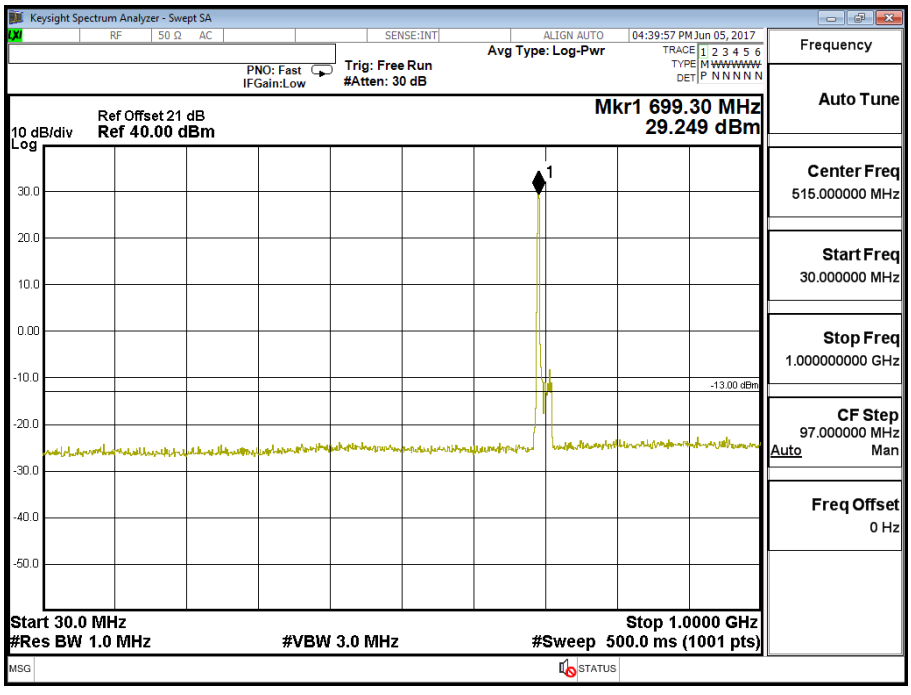

Keysight Spectrum Analyzer - Swept SA
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
03:55:11 PM Jun 05, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div Ref -10.00 dBm
Mkr4 6.336 GHz
-64.745 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.224 GHz -67.189 dBm
2 N 1 f 4.928 GHz -64.697 dBm
3 N 1 f 5.632 GHz -63.527 dBm
4 N 1 f 6.336 GHz -64.745 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto Man
Freq Offset
0 Hz

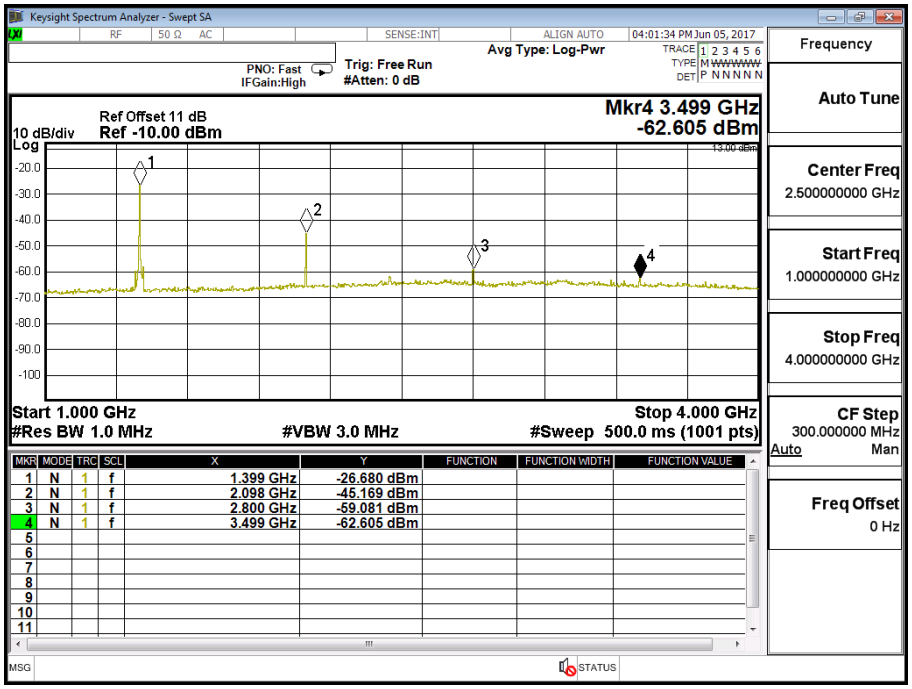

Keysight Spectrum Analyzer - Swept SA
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:58:05 PM Jun 05, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Log
Ref -10.00 dBm
Mkr1 7.040 GHz
-65.22 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.040 GHz -65.223 dBm
2 N 1 f 7.696 GHz -57.453 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

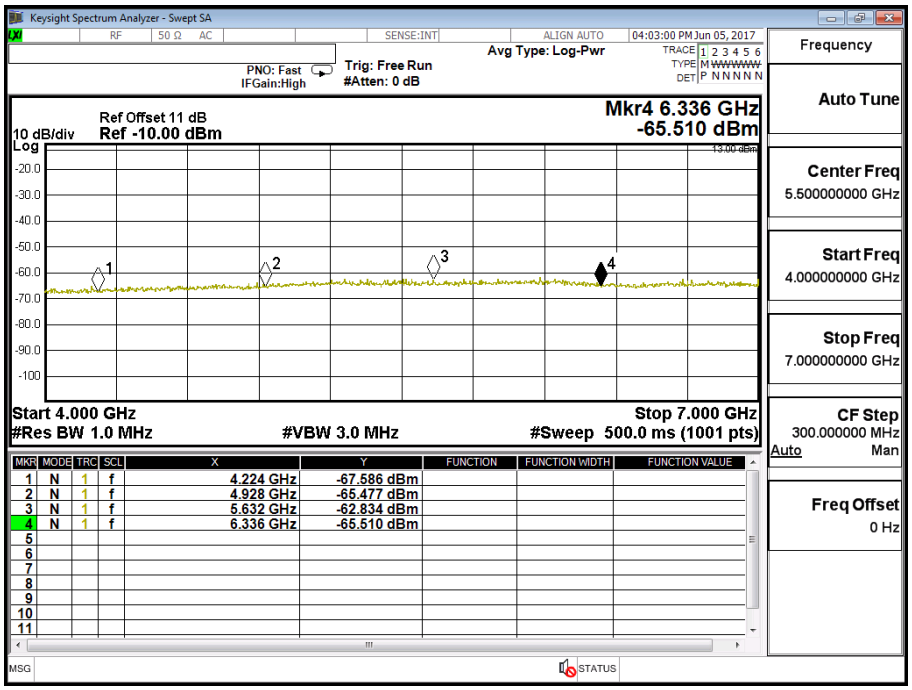
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 12 (10M)	Test Range	30MHz~10GHz

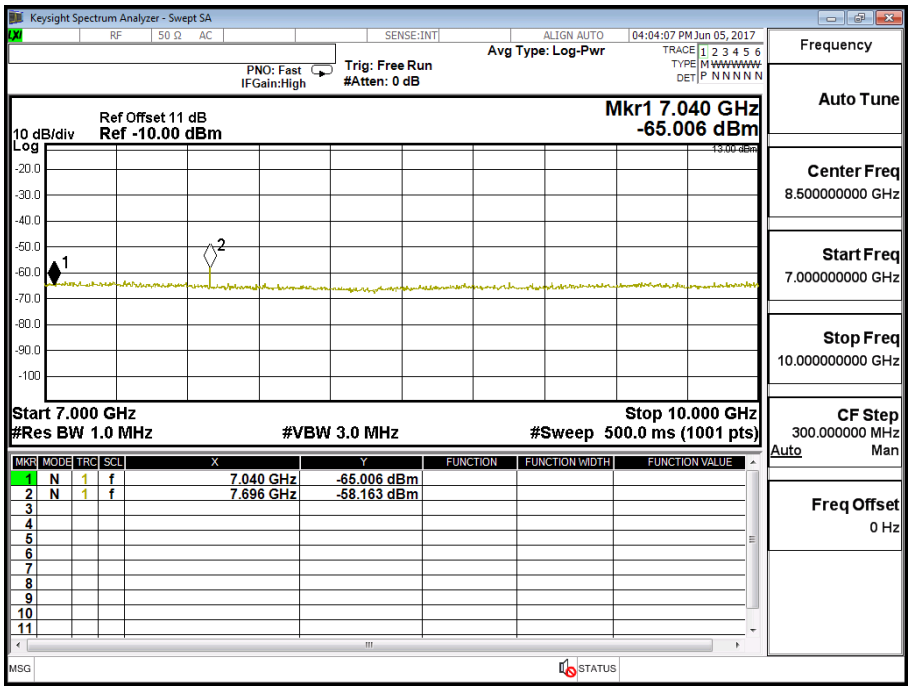
LTE-Band 12 (10M) 16QAM(1,0) CH23060

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1399	-26.680	0.58	-26.100	-13
2098	-45.169	0.7	-44.469	-13
2800	-59.081	1.01	-58.071	-13
3499	-62.605	1.18	-61.425	-13
4244	-67.586	1.23	-66.356	-13
4928	-65.477	1.45	-64.027	-13
5632	-62.834	1.56	-61.274	-13
6336	-65.510	1.59	-63.920	-13
7040	-65.006	1.82	-63.186	-13




Keysight Spectrum Analyzer - Swept SA
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
04:01:34 PM Jun 05, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr4 3.499 GHz
-62.605 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.399 GHz -26.680 dBm
2 N 1 f 2.098 GHz -45.169 dBm
3 N 1 f 2.800 GHz -59.081 dBm
4 N 1 f 3.499 GHz -62.605 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

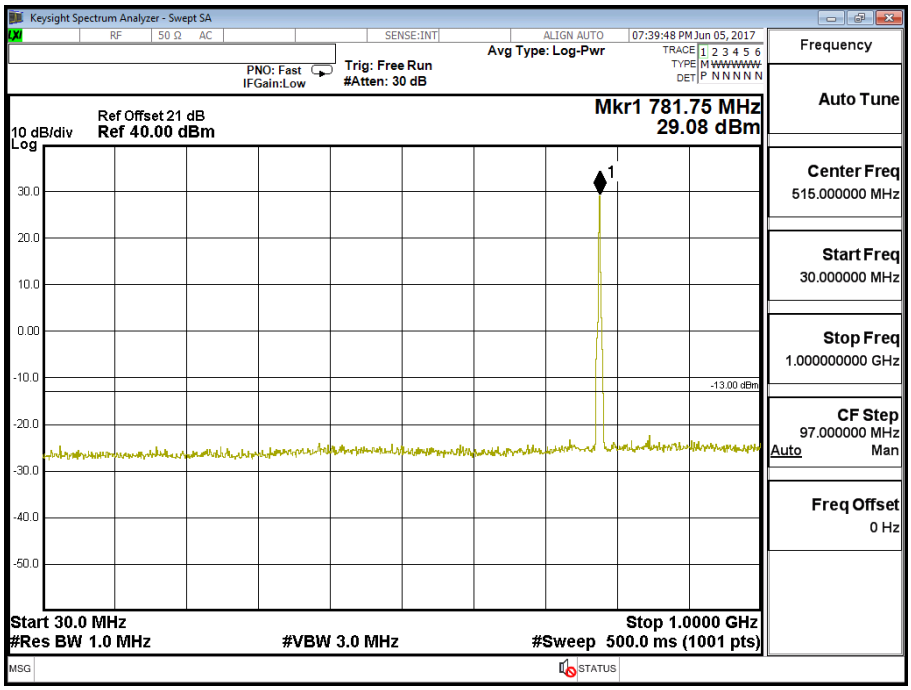

Keysight Spectrum Analyzer - Swept SA
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
04:03:00 PM Jun 05, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr4 6.336 GHz
-65.510 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.224 GHz -67.586 dBm
2 N 1 f 4.928 GHz -65.477 dBm
3 N 1 f 5.632 GHz -62.834 dBm
4 N 1 f 6.336 GHz -65.510 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

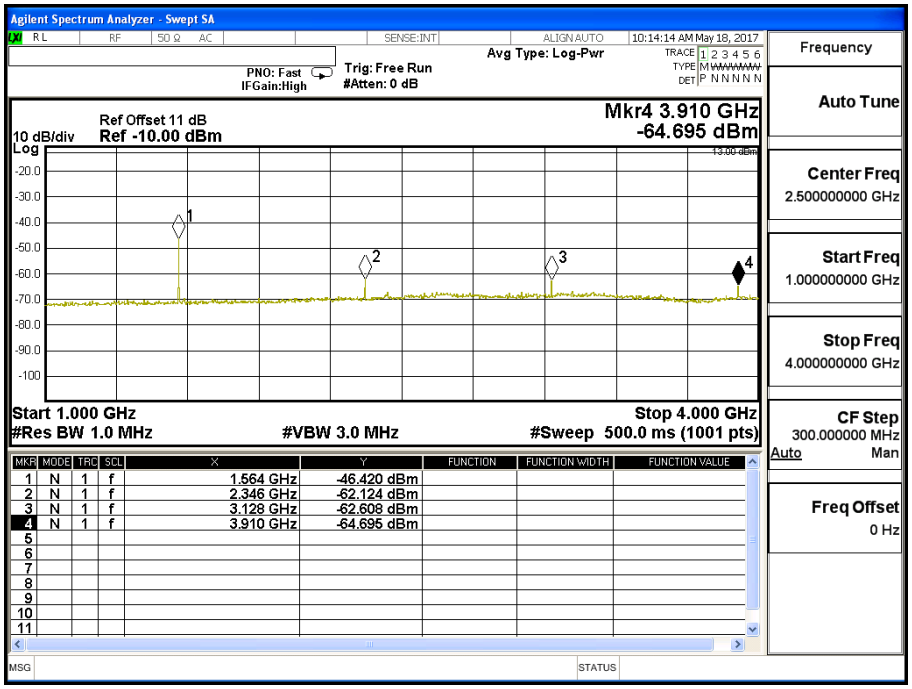

Keysight Spectrum Analyzer - Swept SA
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:04:07 PM Jun 05, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Log
Ref -10.00 dBm
Mkr1 7.040 GHz
-65.006 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.040 GHz -65.006 dBm
2 N 1 f 7.696 GHz -58.163 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

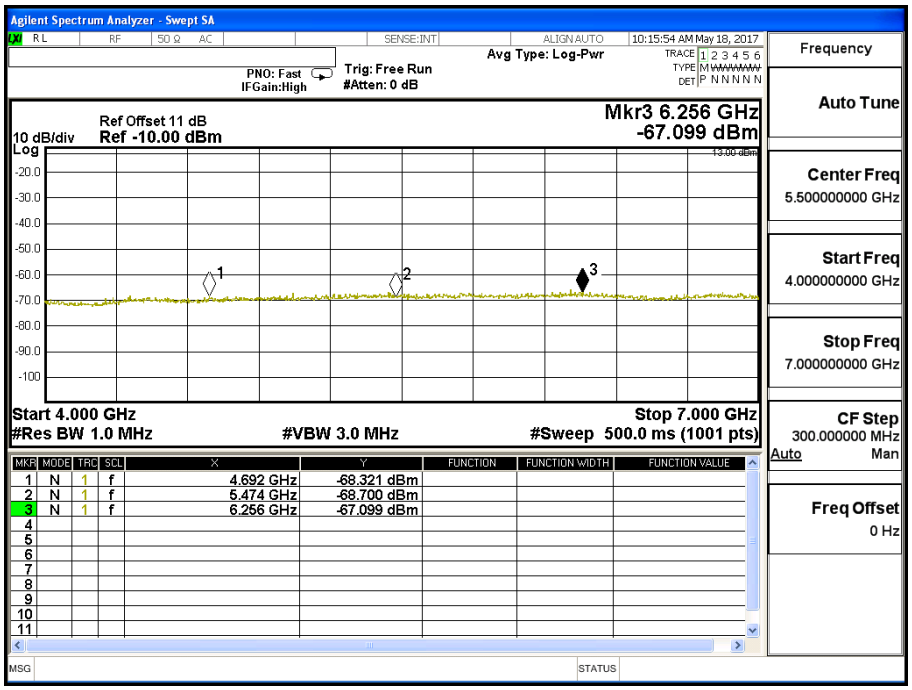
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (5M)	Test Range	30MHz~10GHz

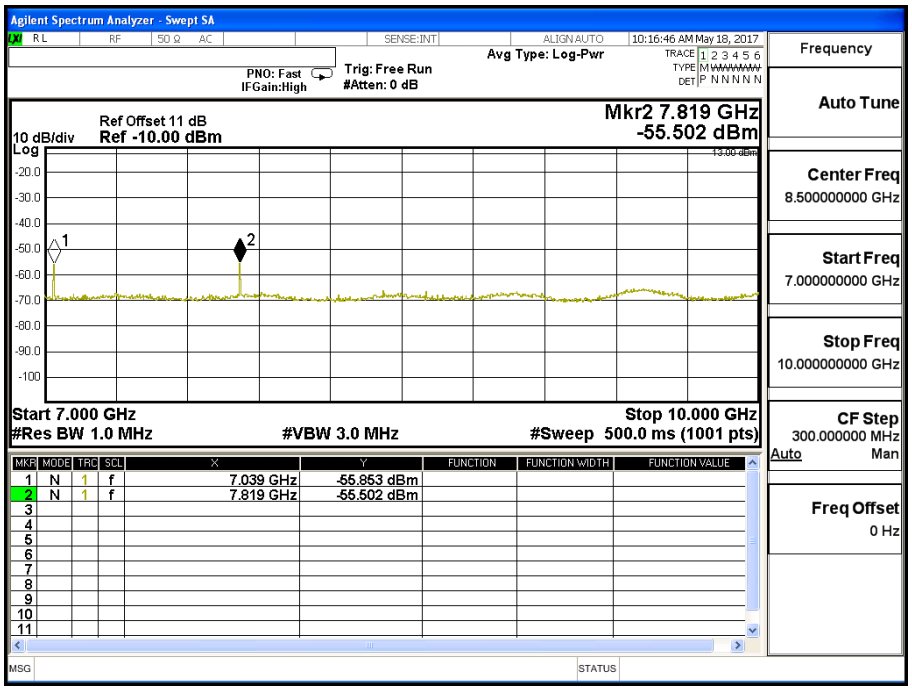
LTE-Band 13 (5M) QPSK(1,12) CH23230

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-46.420	0.58	-45.840	-13
2346	-62.124	0.7	-61.424	-13
3128	-62.608	1.01	-61.598	-13
3910	-64.695	1.18	-63.515	-13
4692	-68.321	1.23	-67.091	-13
5474	-68.700	1.45	-67.250	-13
6256	-67.099	1.56	-65.539	-13
7039	-55.853	1.59	-54.263	-13
7819	-55.502	1.82	-53.682	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:14:14 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.910 GHz
-64.695 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.564 GHz -46.420 dBm
2 N 1 f 2.346 GHz -62.124 dBm
3 N 1 f 3.128 GHz -62.608 dBm
4 N 1 f 3.910 GHz -64.695 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

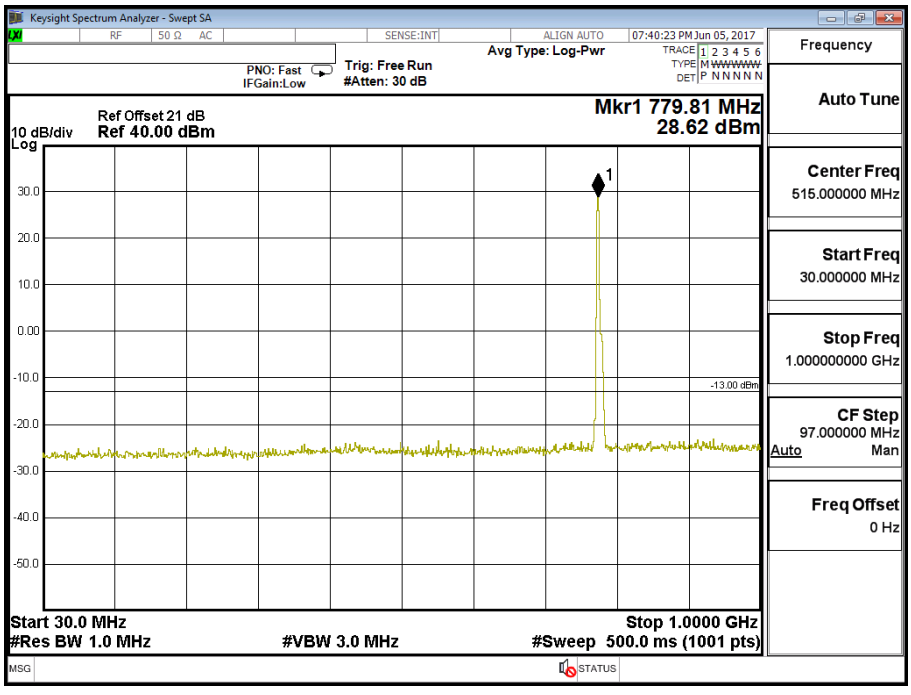

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:15:54 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 6.256 GHz
-67.099 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.692 GHz -68.321 dBm
2 N 1 f 5.474 GHz -68.700 dBm
3 N 1 f 6.256 GHz -67.099 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

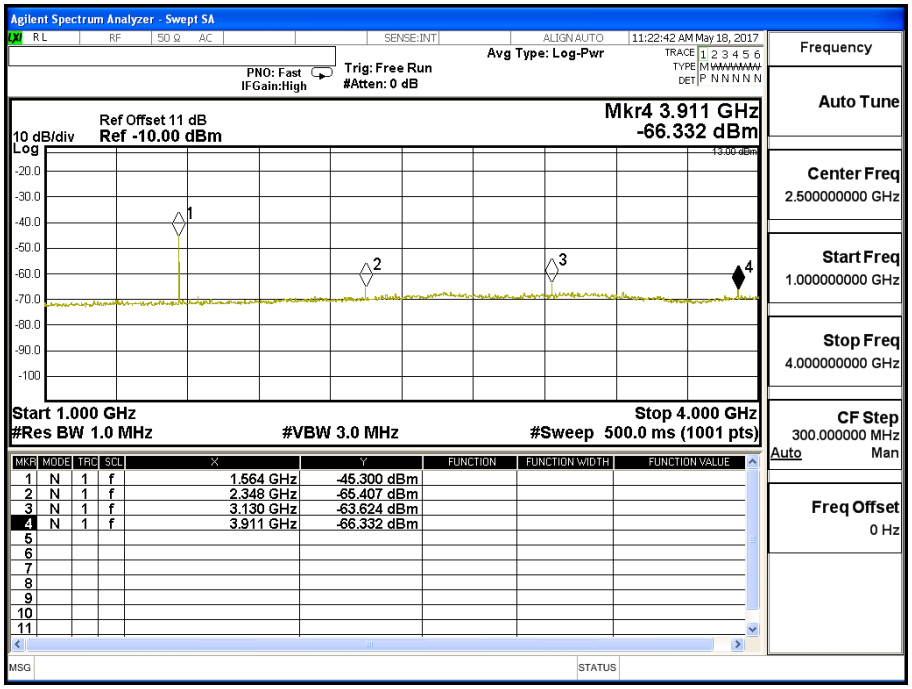

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:16:46 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 7.819 GHz
-55.502 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
1
2
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.039 GHz -55.853 dBm
2 N 1 f 7.819 GHz -55.502 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

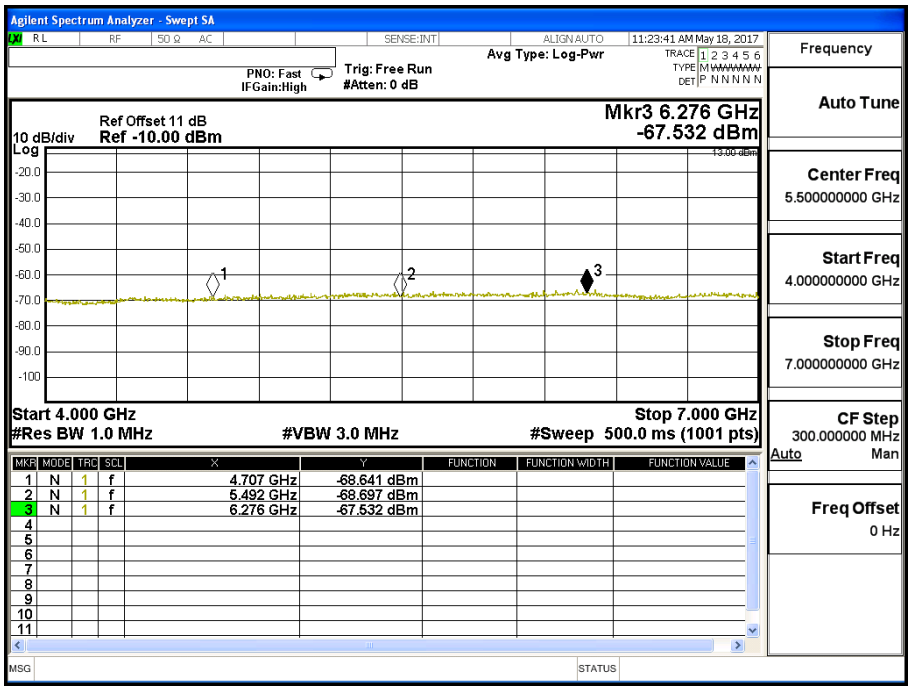
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (5M)	Test Range	30MHz~10GHz

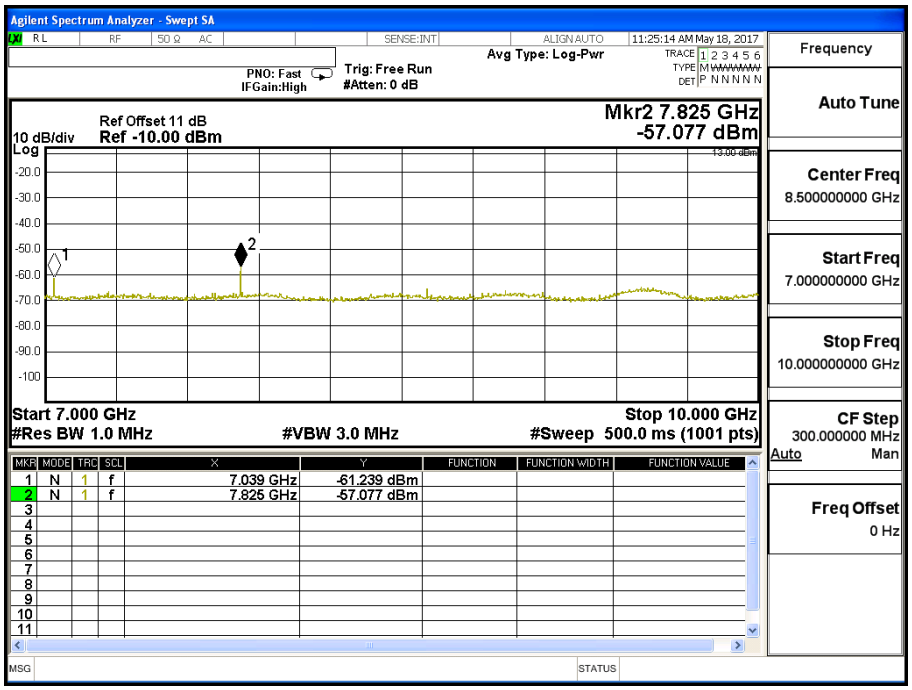
LTE-Band 13 (5M) 16QAM(1,0) CH23255

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-45.300	0.58	-44.720	-13
2348	-65.407	0.7	-64.707	-13
3130	-63.624	1.01	-62.614	-13
3911	-66.332	1.18	-65.152	-13
4707	-68.641	1.23	-67.411	-13
5492	-68.697	1.45	-67.247	-13
6276	-67.532	1.56	-65.972	-13
7039	-61.239	1.59	-59.649	-13
7825	-57.077	1.82	-55.257	-13




Agilent Spectrum Analyzer - Swept SA
11:22:42 AM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.911 GHz
-66.332 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.564 GHz -45.300 dBm
2 N 1 f 2.348 GHz -65.407 dBm
3 N 1 f 3.130 GHz -63.624 dBm
4 N 1 f 3.911 GHz -66.332 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

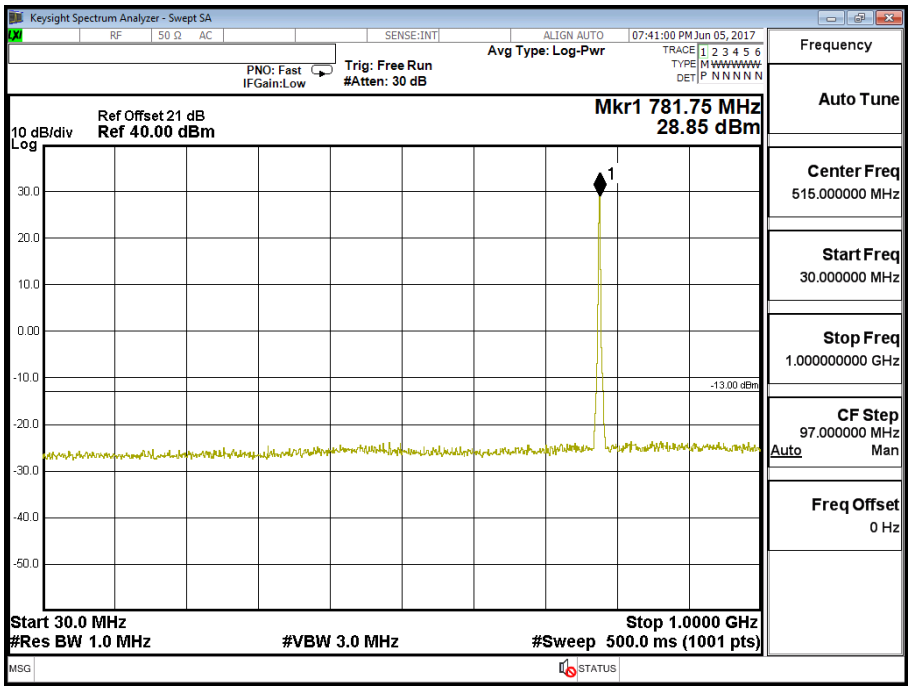

Agilent Spectrum Analyzer - Swept SA
11:23:41 AM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 6.276 GHz
-67.532 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.707 GHz -68.641 dBm
2 N 1 f 5.492 GHz -68.697 dBm
3 N 1 f 6.276 GHz -67.532 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

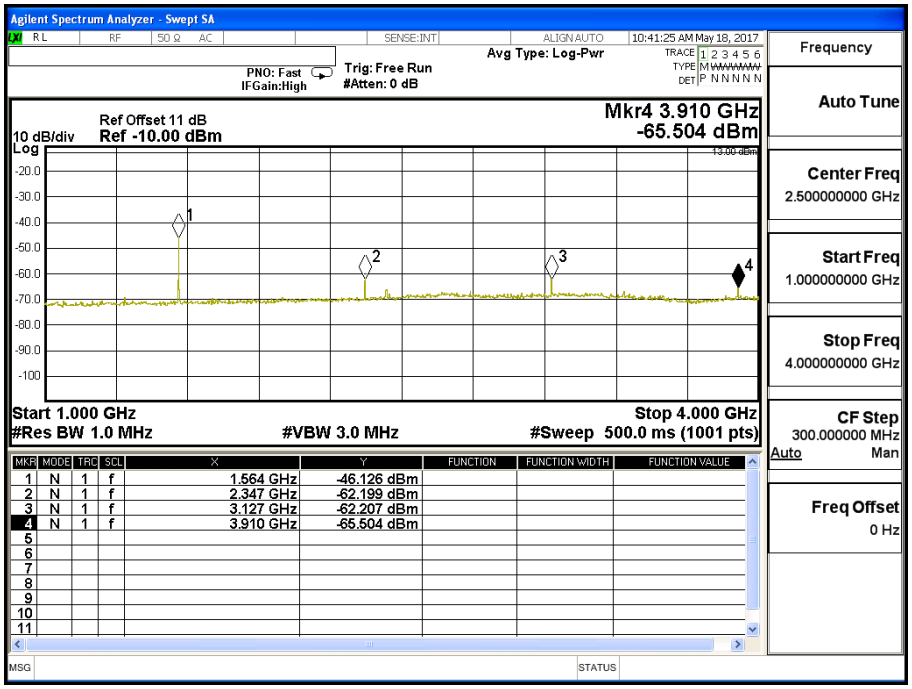

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:25:14 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 7.825 GHz
-57.077 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.039 GHz -61.239 dBm
2 N 1 f 7.825 GHz -57.077 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

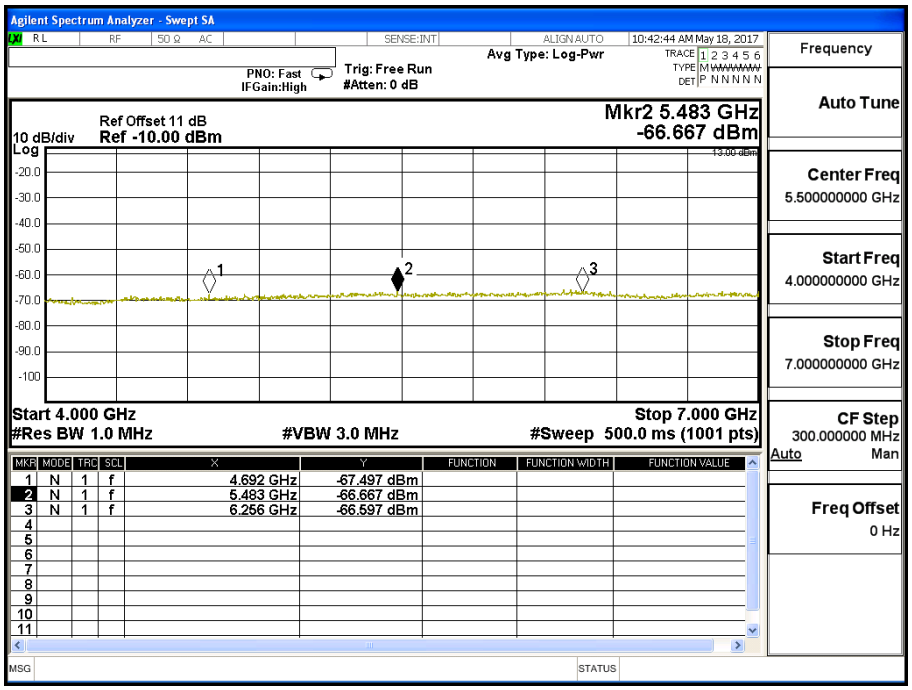
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (10M)	Test Range	30MHz~10GHz

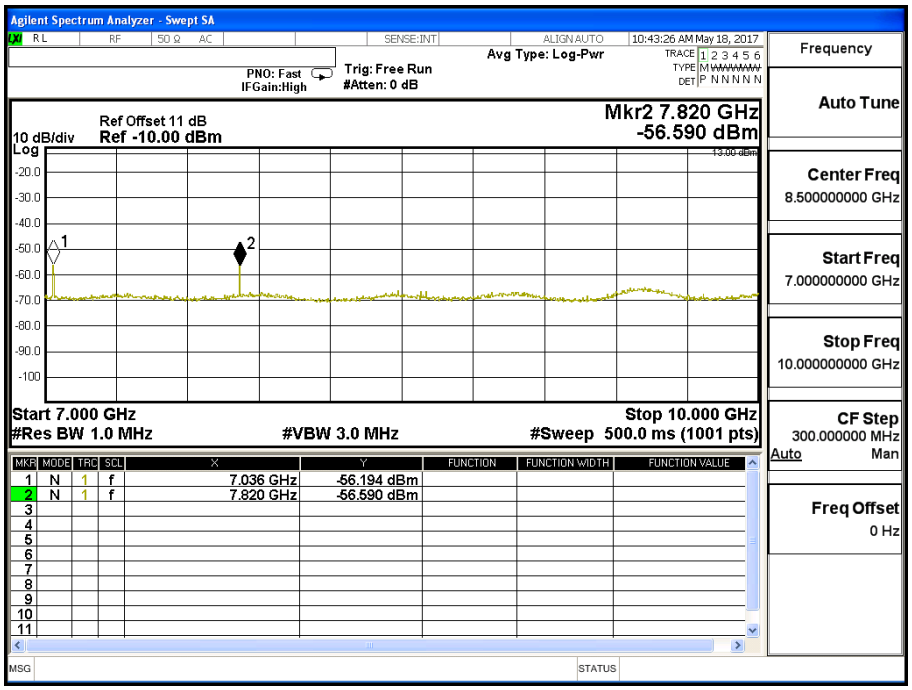
LTE-Band 13 (10M) QPSK(1,24) CH23230

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-46.126	0.58	-45.546	-13
2347	-62.199	0.7	-61.499	-13
3127	-62.207	1.01	-61.197	-13
3910	-65.504	1.18	-64.324	-13
4692	-67.497	1.23	-66.267	-13
5483	-66.667	1.45	-65.217	-13
6256	-66.597	1.56	-65.037	-13
7036	-56.194	1.59	-54.604	-13
7820	-56.590	1.82	-54.770	-13




Agilent Spectrum Analyzer - Swept SA
10:41:25 AM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.910 GHz
-65.504 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 1.564 GHz -46.126 dBm
2 N 1 f 2.347 GHz -62.199 dBm
3 N 1 f 3.127 GHz -62.207 dBm
4 N 1 f 3.910 GHz -65.504 dBm
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

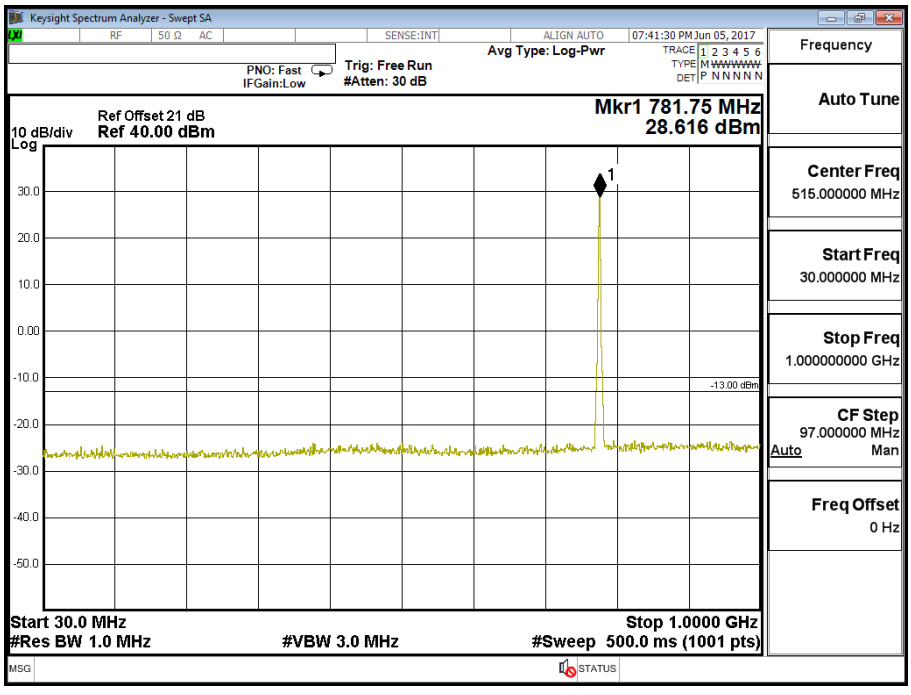

Agilent Spectrum Analyzer - Swept SA
10:42:44 AM May 18, 2017
Avg Type: Log-Pwr
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 5.483 GHz
-66.667 dBm
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
1 N 1 f 4.692 GHz -67.497 dBm
2 N 1 f 5.483 GHz -66.667 dBm
3 N 1 f 6.256 GHz -66.597 dBm
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

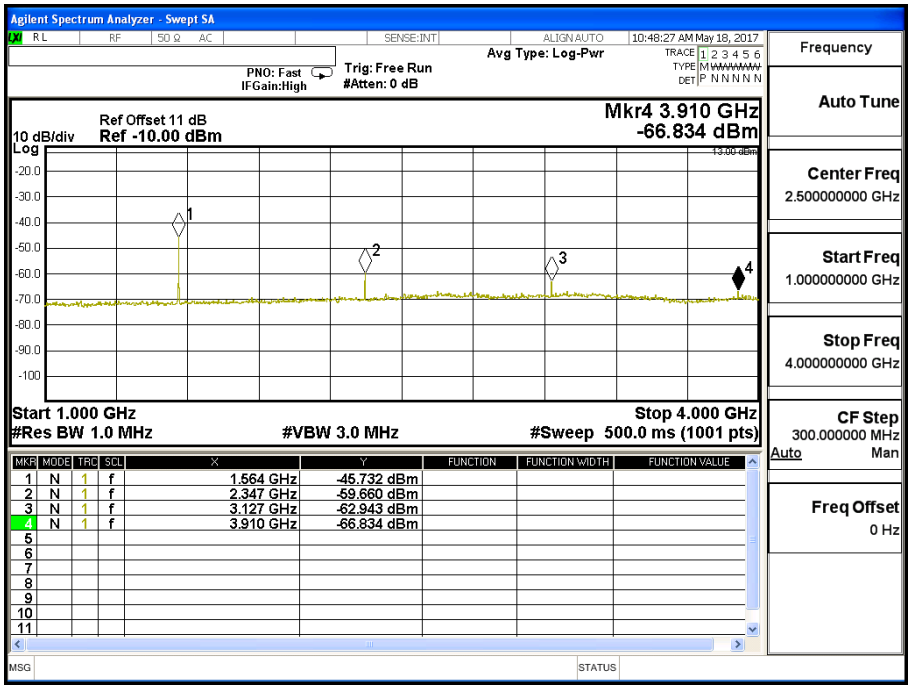

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:43:26 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Log
Mkr2 7.820 GHz
-56.590 dBm
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
1
2
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.036 GHz -56.194 dBm
2 N 1 f 7.820 GHz -56.590 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

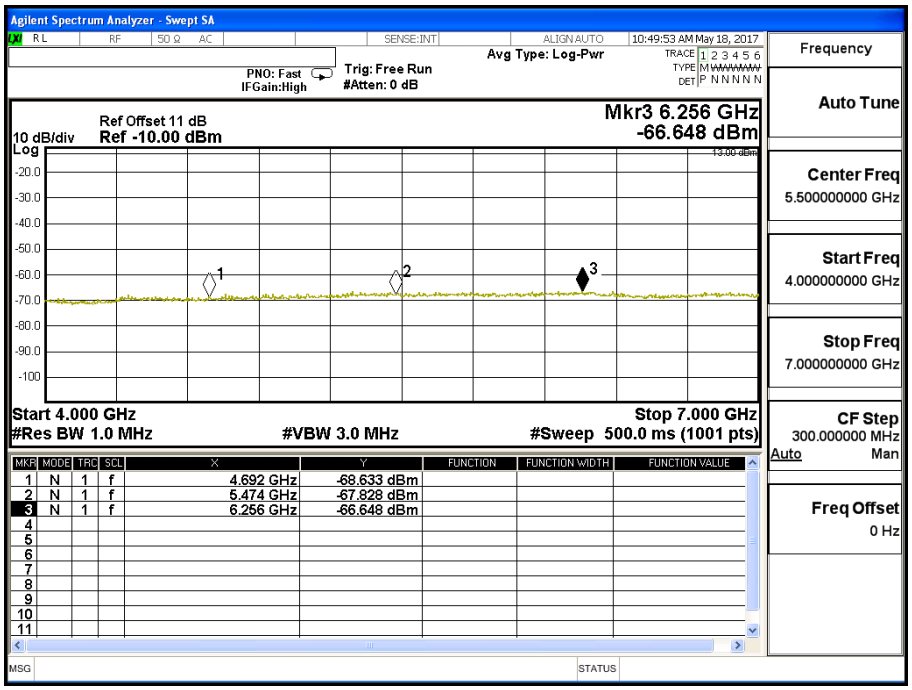
Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2017/05/27	Test Site	CTR
Test Condition	LTE-Band 13 (10M)	Test Range	30MHz~10GHz

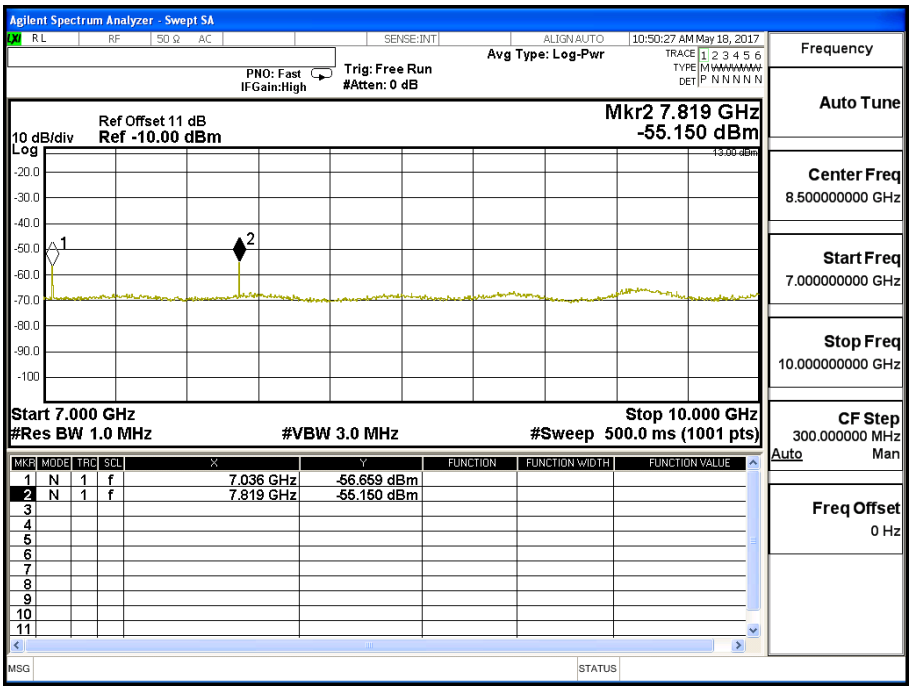
LTE-Band 13 (10M) 16QAM(1,24) CH23230

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
1564	-45.732	0.58	-45.152	-13
2347	-59.660	0.7	-58.960	-13
3127	-62.943	1.01	-61.933	-13
3910	-66.834	1.18	-65.654	-13
4692	-68.633	1.23	-67.403	-13
5474	-67.828	1.45	-66.378	-13
6256	-66.648	1.56	-65.088	-13
7036	-56.659	1.59	-55.069	-13
7819	-55.150	1.82	-53.330	-13




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:48:27 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr4 3.910 GHz
-66.834 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 4.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 1.564 GHz -45.732 dBm
2 N 1 f 2.347 GHz -69.660 dBm
3 N 1 f 3.127 GHz -62.943 dBm
4 N 1 f 3.910 GHz -66.834 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
4.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:49:53 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr3 6.256 GHz
-66.648 dBm
Log
13.00 dBm
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 4.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 7.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 4.692 GHz -68.633 dBm
2 N 1 f 5.474 GHz -67.828 dBm
3 N 1 f 6.256 GHz -66.648 dBm
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
4.000000000 GHz
Stop Freq
7.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:50:27 AM May 18, 2017
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
PNO: Fast
IFGain:High
Trig: Free Run
#Atten: 0 dB
Ref Offset 11 dB
10 dB/div
Ref -10.00 dBm
Mkr2 7.819 GHz
-55.150 dBm
13.00 dBm
Log
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
Start 7.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 500.0 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 7.036 GHz -56.659 dBm
2 N 1 f 7.819 GHz -55.150 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS
Frequency
Auto Tune
Center Freq
8.500000000 GHz
Start Freq
7.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
300.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (1.4M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (1.4M) QPSK(1,0)

3819	-44.686	-45.074	2.530	12.600	-35.004	-13
5728	-59.782	-57.665	3.050	13.100	-47.615	-13
7637	-64.040	-50.261	3.650	11.500	-42.411	-13
9547	-63.014	-48.631	3.850	12.000	-40.481	-13
11456	-62.613	-43.481	4.580	12.000	-36.061	-13

Vertical Emissions Band 2 (1.4M) QPSK(1,0)

3819	-59.086	-56.944	2.530	12.600	-46.874	-13
5728	-63.649	-61.486	3.050	13.100	-51.436	-13
7637	-61.503	-47.125	3.650	11.500	-39.275	-13
9547	-63.286	-48.291	3.850	12.000	-40.141	-13
11456	-63.506	-44.546	4.580	12.000	-37.126	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (3M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (3M) QPSK(1,0)

3703	-50.081	-50.693	2.530	12.600	-40.623	-13
5555	-61.912	-58.528	3.050	13.100	-48.478	-13
7406	-63.201	-48.503	3.650	11.500	-40.653	-13
9258	-61.092	-46.096	3.850	12.000	-37.946	-13
11109	-64.673	-47.183	4.580	12.000	-39.763	-13

Vertical Emissions Band 2 (3M) QPSK(1,0)

3703	-58.902	-57.267	2.530	12.600	-47.197	-13
5555	-63.212	-59.226	3.050	13.100	-49.176	-13
7406	-61.057	-45.977	3.650	11.500	-38.127	-13
9258	-62.155	-46.477	3.850	12.000	-38.327	-13
11109	-64.333	-46.569	4.580	12.000	-39.149	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (5M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (5M) QPSK(1,0)

3705	-49.596	-50.207	2.530	12.600	-40.137	-13
5558	-62.432	-59.048	3.050	13.100	-48.998	-13
7410	-63.203	-48.605	3.650	11.500	-40.755	-13
9263	-62.589	-47.632	3.850	12.000	-39.482	-13
11115	-63.989	-46.498	4.580	12.000	-39.078	-13

Vertical Emissions Band 2 (5M) QPSK(1,0)

3705	-59.771	-58.191	2.530	12.600	-48.121	-13
5558	-62.482	-58.674	3.050	13.100	-48.624	-13
7410	-59.860	-44.780	3.650	11.500	-36.930	-13
9263	-62.222	-46.544	3.850	12.000	-38.394	-13
11115	-64.234	-46.668	4.580	12.000	-39.248	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (10M) QPSK(1,0)	Test Range	9KHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (10M) QPSK(1,0)

3710	-48.045	-48.656	2.530	12.600	-38.586	-13
5565	-61.519	-58.135	3.050	13.100	-48.085	-13
7420	-62.774	-48.092	3.650	11.500	-40.242	-13
9275	-61.472	-46.323	3.850	12.000	-38.173	-13
11130	-64.866	-47.493	4.580	12.000	-40.073	-13

Vertical Emissions Band 2 (10M) QPSK(1,0)

3710	-58.981	-57.346	2.530	12.600	-47.276	-13
5565	-63.302	-59.376	3.050	13.100	-49.326	-13
7420	-59.830	-44.750	3.650	11.500	-36.900	-13
9275	-62.249	-46.829	3.850	12.000	-38.679	-13
11130	-64.034	-46.283	4.580	12.000	-38.863	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. ERP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (15M) QPSK(1,0)	Test Range	9KHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (15M) QPSK(1,0)

3715	-48.140	-48.751	2.530	12.600	-38.681	-13
5573	-57.991	-54.607	3.050	13.100	-44.557	-13
7430	-62.418	-47.736	3.650	11.500	-39.886	-13
9288	-62.210	-47.099	3.850	12.000	-38.949	-13
11145	-64.702	-47.566	4.580	12.000	-40.146	-13

Vertical Emissions Band 2 (15M) QPSK(1,0)

3715	-58.266	-56.631	2.530	12.600	-46.561	-13
5573	-62.886	-58.724	3.050	13.100	-48.674	-13
7430	-59.760	-44.680	3.650	11.500	-36.830	-13
9288	-62.451	-46.748	3.850	12.000	-38.598	-13
11145	-64.755	-47.393	4.580	12.000	-39.973	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 2 (20M) QPSK(1,0)	Test Range	9KHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 2 (20M) QPSK(1,0)

3800	-44.400	-44.671	2.530	12.600	-34.601	-13
5700	-58.128	-55.678	3.050	13.100	-45.628	-13
7600	-62.187	-47.907	3.650	11.500	-40.057	-13
9500	-62.588	-47.973	3.850	12.000	-39.823	-13
11400	-64.360	-46.718	4.580	12.000	-39.298	-13

Vertical Emissions Band 2 (20M) QPSK(1,0)

3784	-55.577	-53.446	2.530	12.600	-43.376	-13
5700	-63.317	-60.945	3.050	13.100	-50.895	-13
7600	-61.243	-46.417	3.650	11.500	-38.567	-13
9500	-62.455	-46.975	3.850	12.000	-38.825	-13
11400	-64.190	-46.642	4.580	12.000	-39.222	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (1.4M) QPSK(3,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (1.4M) QPSK(3,0)

3465	-48.897	-49.691	2.530	12.600	-39.621	-13
5198	-63.658	-59.602	3.050	13.100	-49.552	-13
6930	-59.337	-47.478	3.650	11.500	-39.628	-13
8663	-62.715	-47.196	3.850	12.000	-39.046	-13
10395	-60.521	-43.862	4.580	12.000	-36.442	-13
12128	-63.868	-46.738	4.800	13.300	-38.238	-13

Vertical Emissions Band 4 (1.4M) QPSK(3,0)

3465	-59.734	-59.635	2.530	12.600	-49.565	-13
5198	-63.794	-59.457	3.050	13.100	-49.407	-13
6930	-57.476	-45.113	3.650	11.500	-37.263	-13
8663	-62.540	-46.536	3.850	12.000	-38.386	-13
10395	-60.949	-44.051	4.580	12.000	-36.631	-13
12128	-64.514	-47.532	4.800	13.300	-39.032	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (3M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (3M) QPSK(1,0)

3423	-48.158	-49.424	2.530	12.600	-39.354	-13
5135	-62.762	-58.525	3.050	13.100	-48.475	-13
6846	-58.440	-47.551	3.650	11.500	-39.701	-13
8558	-64.757	-49.498	3.850	12.000	-41.348	-13
10269	-62.926	-46.607	4.580	12.000	-39.187	-13
11981	-63.308	-46.781	4.800	13.300	-38.281	-13

Vertical Emissions Band 4 (3M) QPSK(1,0)

3423	-57.250	-57.519	2.530	12.600	-47.449	-13
5135	-61.846	-57.199	3.050	13.100	-47.149	-13
6846	-55.801	-44.305	3.650	11.500	-36.455	-13
8558	-64.264	-48.633	3.850	12.000	-40.483	-13
10269	-62.850	-46.708	4.580	12.000	-39.288	-13
11981	-64.636	-48.046	4.800	13.300	-39.546	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (5M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (5M) QPSK(1,0)

3424	-47.769	-49.035	2.530	12.600	-38.965	-13
5138	-62.965	-58.769	3.050	13.100	-48.719	-13
6840	-59.738	-48.849	3.650	11.500	-40.999	-13
8563	-64.308	-49.049	3.850	12.000	-40.899	-13
10275	-61.532	-45.170	4.580	12.000	-37.750	-13
11988	-63.930	-47.283	4.800	13.300	-38.783	-13

Vertical Emissions Band 4 (5M) QPSK(1,0)

3424	-56.028	-56.297	2.530	12.600	-46.227	-13
5138	-62.946	-58.424	3.050	13.100	-48.374	-13
6840	-55.543	-44.047	3.650	11.500	-36.197	-13
8563	-63.530	-47.844	3.850	12.000	-39.694	-13
10275	-61.969	-45.835	4.580	12.000	-38.415	-13
11988	-63.699	-46.789	4.800	13.300	-38.289	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (10M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (10M) QPSK(1,0)

3430	-48.162	-49.428	2.530	12.600	-39.358	-13
5145	-61.928	-57.510	3.050	13.100	-47.460	-13
6860	-56.804	-45.915	3.650	11.500	-38.065	-13
8575	-63.825	-48.457	3.850	12.000	-40.307	-13
10290	-61.857	-45.453	4.580	12.000	-38.033	-13
12005	-64.074	-47.664	4.800	13.300	-39.164	-13

Vertical Emissions Band 4 (10M) QPSK(1,0)

3430	-56.567	-56.836	2.530	12.600	-46.766	-13
5145	-62.343	-57.821	3.050	13.100	-47.771	-13
6860	-55.659	-44.163	3.650	11.500	-36.313	-13
8575	-64.652	-48.993	3.850	12.000	-40.843	-13
10290	-62.533	-46.399	4.580	12.000	-38.979	-13
12005	-64.101	-47.660	4.800	13.300	-39.160	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (15M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (15M) QPSK(1,0)

3456	-45.139	-50.027	2.530	12.600	-39.957	-13
5198	-63.301	-59.182	3.050	13.100	-49.132	-13
6900	-60.314	-48.920	3.650	11.500	-41.070	-13
8663	-62.637	-47.169	3.850	12.000	-39.019	-13
10395	-61.165	-44.423	4.580	12.000	-37.003	-13
12128	-64.766	-47.664	4.800	13.300	-39.164	-13

Vertical Emissions Band 4 (15M) QPSK(1,0)

3456	-55.219	-55.194	2.530	12.600	-45.124	-13
5198	-63.230	-58.804	3.050	13.100	-48.754	-13
6900	-57.308	-45.448	3.650	11.500	-37.598	-13
8663	-63.281	-47.277	3.850	12.000	-39.127	-13
10395	-60.754	-43.855	4.580	12.000	-36.435	-13
12128	-65.200	-48.218	4.800	13.300	-39.718	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 4 (20M) QPSK(1,0)	Test Range	9kHz ~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 4 (20M) QPSK(1,0)

3448	-43.038	-44.021	2.530	12.600	-33.951	-13
5198	-62.996	-58.940	3.050	13.100	-48.890	-13
6890	-58.969	-47.725	3.650	11.500	-39.875	-13
8663	-63.116	-47.648	3.850	12.000	-39.498	-13
10395	-61.542	-44.801	4.580	12.000	-37.381	-13
12128	-63.800	-46.614	4.800	13.300	-38.114	-13

Vertical Emissions Band 4 (20M) QPSK(1,0)

3448	-52.635	-52.683	2.530	12.600	-42.613	-13
5198	-63.541	-59.204	3.050	13.100	-49.154	-13
6890	-55.106	-43.315	3.650	11.500	-35.465	-13
8663	-63.335	-47.331	3.850	12.000	-39.181	-13
10395	-59.972	-43.240	4.580	12.000	-35.820	-13
12128	-65.462	-48.481	4.800	13.300	-39.981	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 13 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (1.4M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (1.4M) QPSK(1,0)

1648	-49.242	-52.637	1.630	9.800	-44.467	-13
2476	-58.985	-59.329	2.100	10.600	-50.829	-13
3298	-58.626	-60.307	2.350	12.300	-50.357	-13
4124	-61.063	-60.077	2.700	12.600	-50.177	-13
4948	-61.814	-57.727	2.830	12.700	-47.857	-13
5773	-64.231	-62.179	3.200	13.000	-52.379	-13

Vertical Emissions Band 5 (1.4M) QPSK(1,0)

1648	-54.738	-57.824	1.630	9.800	-49.654	-13
2476	-61.896	-61.973	2.100	10.600	-53.473	-13
3298	-59.594	-60.222	2.350	12.300	-50.272	-13
4124	-60.718	-58.038	2.700	12.600	-48.138	-13
4948	-62.981	-58.321	2.830	12.700	-48.451	-13
5773	-63.528	-61.350	3.200	13.000	-51.550	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (3M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (3M) QPSK(1,0)

1648	-50.094	-53.489	1.630	9.800	-45.319	-13
2477	-60.463	-60.808	2.100	10.600	-52.308	-13
3302	-56.159	-58.200	2.350	12.300	-48.250	-13
4128	-61.267	-60.280	2.700	12.600	-50.380	-13
4953	-62.838	-58.715	2.830	12.700	-48.845	-13
5779	-63.999	-61.985	3.200	13.000	-52.185	-13

Vertical Emissions Band 5 (3M) QPSK(1,0)

1648	-54.278	-57.365	1.630	9.800	-49.195	-13
2477	-63.142	-63.219	2.100	10.600	-54.719	-13
3302	-58.428	-59.054	2.350	12.300	-49.104	-13
4128	-60.280	-57.522	2.700	12.600	-47.622	-13
4953	-61.689	-57.160	2.830	12.700	-47.290	-13
5779	-63.518	-61.376	3.200	13.000	-51.576	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (5M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (5M) QPSK(1,0)

1653	-49.255	-52.650	1.630	9.800	-44.480	-13
2480	-60.232	-60.576	2.100	10.600	-52.076	-13
3306	-59.838	-61.516	2.350	12.300	-51.566	-13
4133	-61.151	-60.188	2.700	12.600	-50.288	-13
4959	-63.561	-59.420	2.830	12.700	-49.550	-13
5786	-63.862	-61.766	3.200	13.000	-51.966	-13

Vertical Emissions Band 5 (5M) QPSK(1,0)

1653	-54.032	-57.119	1.630	9.800	-48.949	-13
2480	-62.754	-62.835	2.100	10.600	-54.335	-13
3306	-59.247	-59.874	2.350	12.300	-49.924	-13
4133	-61.245	-58.595	2.700	12.600	-48.695	-13
4959	-62.761	-58.014	2.830	12.700	-48.144	-13
5786	-63.983	-61.912	3.200	13.000	-52.112	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 5 (10M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 5 (10M) QPSK(1,0)

1658	-50.335	-53.730	1.630	9.800	-45.560	-13
2487	-59.826	-60.170	2.100	10.600	-51.670	-13
3316	-59.416	-61.087	2.350	12.300	-51.137	-13
4145	-60.368	-59.381	2.700	12.600	-49.481	-13
4974	-63.114	-58.937	2.830	12.700	-49.067	-13
5803	-64.026	-61.785	3.200	13.000	-51.985	-13

Vertical Emissions Band 5 (10M) QPSK(1,0)

1658	-54.667	-57.754	1.630	9.800	-49.584	-13
2487	-62.525	-62.602	2.100	10.600	-54.102	-13
3316	-59.710	-60.323	2.350	12.300	-50.373	-13
4145	-60.333	-57.743	2.700	12.600	-47.843	-13
4974	-63.067	-58.232	2.830	12.700	-48.362	-13
5803	-63.807	-61.710	3.200	13.000	-51.910	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (1.4M) QPSK(1,5)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (1.4M) QPSK(1,5)

1399	-34.693	-39.082	1.630	9.800	-30.912	-13
2099	-62.229	-62.970	2.100	10.600	-54.470	-13
2799	-63.761	-65.510	2.350	12.300	-55.560	-13
3499	-60.165	-60.578	2.700	12.600	-50.678	-13
4198	-60.569	-59.611	2.830	12.700	-49.741	-13
4898	-63.592	-59.561	3.200	13.000	-49.761	-13

Vertical Emissions Band 12 (1.4M) QPSK(1,5)

1399	-42.646	-46.096	1.630	9.800	-37.926	-13
2099	-63.396	-64.258	2.100	10.600	-55.758	-13
2799	-63.340	-63.805	2.350	12.300	-53.855	-13
3499	-60.872	-60.309	2.700	12.600	-50.409	-13
4198	-61.082	-58.705	2.830	12.700	-48.835	-13
4898	-62.453	-58.036	3.200	13.000	-48.236	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (3M) QPSK(1,7)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (3M) QPSK(1,7)

1401	-35.441	-39.853	1.630	9.800	-31.683	-13
2102	-61.662	-62.339	2.100	10.600	-53.839	-13
2802	-63.759	-65.508	2.350	12.300	-55.558	-13
3503	-60.532	-60.948	2.700	12.600	-51.048	-13
4203	-60.374	-59.416	2.830	12.700	-49.546	-13
4904	-63.191	-59.142	3.200	13.000	-49.342	-13

Vertical Emissions Band 12 (3M) QPSK(1,7)

1401	-43.125	-46.575	1.630	9.800	-38.405	-13
2102	-63.691	-64.465	2.100	10.600	-55.965	-13
2802	-63.725	-64.178	2.350	12.300	-54.228	-13
3503	-60.292	-59.670	2.700	12.600	-49.770	-13
4203	-62.212	-59.784	2.830	12.700	-49.914	-13
4904	-63.674	-59.235	3.200	13.000	-49.435	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (5M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (5M) QPSK(1,0)

1403	-34.964	-39.353	1.630	9.800	-31.183	-13
2105	-62.419	-63.160	2.100	10.600	-54.660	-13
2806	-63.601	-65.350	2.350	12.300	-55.400	-13
3508	-59.613	-60.033	2.700	12.600	-50.133	-13
4209	-62.311	-61.092	2.830	12.700	-51.222	-13
4911	-63.412	-59.345	3.200	13.000	-49.545	-13

Vertical Emissions Band 12 (5M) QPSK(1,0)

1403	-43.055	-46.505	1.630	9.800	-38.335	-13
2105	-64.723	-65.496	2.100	10.600	-56.996	-13
2806	-62.848	-63.301	2.350	12.300	-53.351	-13
3508	-59.728	-59.045	2.700	12.600	-49.145	-13
4209	-61.953	-59.474	2.830	12.700	-49.604	-13
4911	-61.949	-57.438	3.200	13.000	-47.638	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 12 (10M) QPSK(1,0)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 12 (10M) QPSK(1,0)

1408	-35.740	-40.129	1.630	9.800	-31.959	-13
2112	-62.358	-63.099	2.100	10.600	-54.599	-13
2816	-64.294	-66.078	2.350	12.300	-56.128	-13
3520	-60.524	-60.954	2.700	12.600	-51.054	-13
4224	-62.564	-61.159	2.830	12.700	-51.289	-13
4928	-64.184	-60.063	3.200	13.000	-50.263	-13

Vertical Emissions Band 12 (10M) QPSK(1,0)

1408	-41.478	-44.928	1.630	9.800	-36.758	-13
2112	-65.353	-66.090	2.100	10.600	-57.590	-13
2816	-66.236	-66.755	2.350	12.300	-56.805	-13
3520	-60.698	-59.892	2.700	12.600	-49.992	-13
4224	-62.436	-59.818	2.830	12.700	-49.948	-13
4928	-62.922	-58.367	3.200	13.000	-48.567	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 5 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 13 (5M) QPSK(1,12)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 13 (5M) QPSK(1,12)

1564	-45.496	-49.916	1.630	9.800	-41.746	-40
2346	-58.539	-58.745	2.100	10.600	-50.245	-13
3128	-58.998	-60.096	2.350	12.300	-50.146	-13
3910	-61.307	-61.457	2.700	12.600	-51.557	-13
4692	-62.688	-59.427	2.830	12.700	-49.557	-13
5474	-63.812	-59.661	3.200	13.000	-49.861	-13

Vertical Emissions Band 13 (5M) QPSK(1,12)

1564	-50.571	-54.317	1.630	9.800	-46.147	-40
2346	-61.272	-60.882	2.100	10.600	-52.382	-13
3128	-59.497	-59.588	2.350	12.300	-49.638	-13
3910	-61.875	-59.991	2.700	12.600	-50.091	-13
4692	-63.409	-59.350	2.830	12.700	-49.480	-13
5474	-63.793	-59.268	3.200	13.000	-49.468	-13

Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2017/05/19	Test Site	Site3
Test Condition	Band 13 (10M) QPSK(1,24)	Test Range	9kHz ~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

Horizontal Emissions Band 13 (10M) QPSK(1,24)

1564	-46.692	-51.112	1.630	9.800	-42.942	-40
2346	-58.301	-58.507	2.100	10.600	-50.007	-13
3128	-59.484	-60.547	2.350	12.300	-50.597	-13
3910	-61.220	-61.370	2.700	12.600	-51.470	-13
4692	-62.532	-59.190	2.830	12.700	-49.320	-13
5474	-63.351	-59.193	3.200	13.000	-49.393	-13

Vertical Emissions Band 13 (10M) QPSK(1,24)

1564	-51.533	-55.279	1.630	9.800	-47.109	-40
2346	-60.172	-59.781	2.100	10.600	-51.281	-13
3128	-60.684	-60.759	2.350	12.300	-50.809	-13
3910	-61.127	-59.242	2.700	12.600	-49.342	-13
4692	-62.491	-58.432	2.830	12.700	-48.562	-13
5474	-62.699	-58.174	3.200	13.000	-48.374	-13

Note:

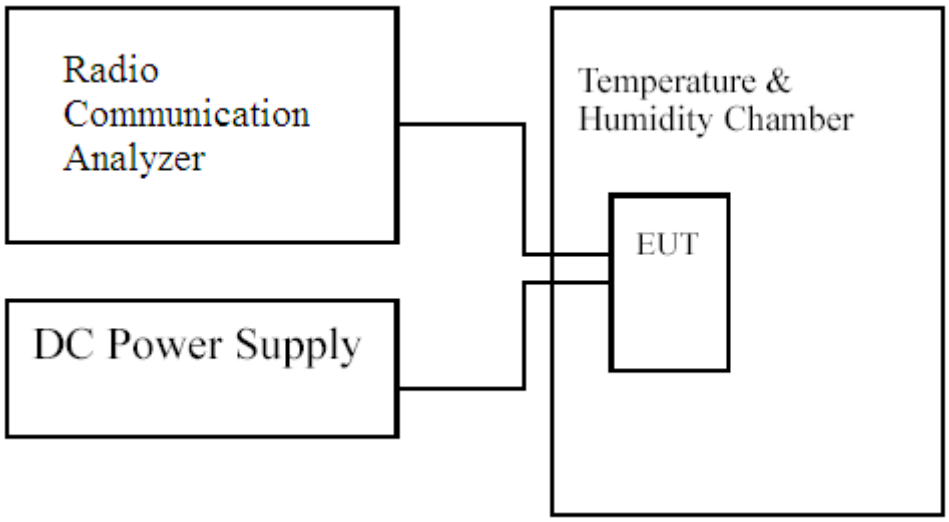
1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

7. Frequency Stability Under Temperature & Voltage Variations

7.1. Test Specification

According to Part 2.1055, 22.355, 24.235, 27.54
RSS GEN, RSS 130, RSS 132, RSS 133

7.2. Test Setup



7.3. Limits

Limit	**<±2.5ppm**

7.4. Test Procedure

The frequency stability of transmitter is measured by:

(a) Temperature: The temperature is varied from -30°C to 50°C in 10°C increment using a standard temperature & Humidity chamber.

(b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, (MT8820C), was used to measure The Frequency Error. The maximum result of measurements was recorded.

7.5. Test Result of Frequency Stability Under Temperature Variations

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (1.4M) CH18900(1880MHz) –QPSK	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0133	±4.70
-20	1.88	0.0111	±4.70
-10	1.88	0.0129	±4.70
0	1.88	0.0096	±4.70
10	1.88	0.0108	±4.70
20	1.88	0.0096	±4.70
30	1.88	0.0148	±4.70
40	1.88	0.0094	±4.70
50	1.88	0.0100	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0116	±4.70
120	1.88	0.0096	±4.70
102	1.88	0.0104	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (1.4M) CH18900(1880MHz) –16QAM	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0072	±4.70
-20	1.88	0.0090	±4.70
-10	1.88	-0.0088	±4.70
0	1.88	0.0125	±4.70
10	1.88	0.0093	±4.70
20	1.88	0.0130	±4.70
30	1.88	0.0188	±4.70
40	1.88	0.0131	±4.70
50	1.88	-0.0085	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0094	±4.70
120	1.88	0.0130	±4.70
102	1.88	0.0119	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (3M) CH18900(1880MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0164	±4.70
-20	1.88	0.0085	±4.70
-10	1.88	0.0071	±4.70
0	1.88	-0.0138	±4.70
10	1.88	0.0124	±4.70
20	1.88	0.0182	±4.70
30	1.88	0.0117	±4.70
40	1.88	-0.0087	±4.70
50	1.88	-0.0080	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0183	±4.70
120	1.88	0.0182	±4.70
102	1.88	0.0106	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (3M) CH18900(1880MHz) –16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0082	±4.70
-20	1.88	-0.0127	±4.70
-10	1.88	-0.0119	±4.70
0	1.88	-0.0154	±4.70
10	1.88	0.0109	±4.70
20	1.88	0.0134	±4.70
30	1.88	-0.0132	±4.70
40	1.88	0.0125	±4.70
50	1.88	0.0143	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	-0.0115	±4.70
120	1.88	0.0134	±4.70
102	1.88	-0.0126	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (5M) CH18900(1880MHz) –QPSK	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	-0.0127	±4.70
-20	1.88	-0.0136	±4.70
-10	1.88	-0.0143	±4.70
0	1.88	-0.0125	±4.70
10	1.88	0.0133	±4.70
20	1.88	0.0147	±4.70
30	1.88	-0.0196	±4.70
40	1.88	0.0141	±4.70
50	1.88	-0.0112	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	-0.0172	±4.70
120	1.88	0.0147	±4.70
102	1.88	-0.0104	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (5M) CH18900(1880MHz) –16QAM	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0095	±4.70
-20	1.88	0.0091	±4.70
-10	1.88	-0.0106	±4.70
0	1.88	-0.0149	±4.70
10	1.88	-0.0131	±4.70
20	1.88	-0.0126	±4.70
30	1.88	0.0119	±4.70
40	1.88	-0.0139	±4.70
50	1.88	-0.0108	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	-0.0106	±4.70
120	1.88	-0.0126	±4.70
102	1.88	-0.0100	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (10M) CH18900(1880MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	-0.0083	±4.70
-20	1.88	0.0112	±4.70
-10	1.88	0.0123	±4.70
0	1.88	0.0105	±4.70
10	1.88	0.0138	±4.70
20	1.88	0.0184	±4.70
30	1.88	0.0114	±4.70
40	1.88	-0.0102	±4.70
50	1.88	0.0129	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0098	±4.70
120	1.88	0.0184	±4.70
102	1.88	0.0142	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (10M) CH18900(1880MHz) –16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0119	±4.70
-20	1.88	-0.0143	±4.70
-10	1.88	0.0092	±4.70
0	1.88	0.0110	±4.70
10	1.88	-0.0129	±4.70
20	1.88	-0.0124	±4.70
30	1.88	-0.0118	±4.70
40	1.88	-0.0080	±4.70
50	1.88	0.0123	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0146	±4.70
120	1.88	-0.0124	±4.70
102	1.88	-0.0127	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (15M) CH18900(1880MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0099	±4.70
-20	1.88	0.0074	±4.70
-10	1.88	0.0088	±4.70
0	1.88	-0.0098	±4.70
10	1.88	-0.0078	±4.70
20	1.88	0.0109	±4.70
30	1.88	0.0123	±4.70
40	1.88	0.0140	±4.70
50	1.88	0.0093	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0077	±4.70
120	1.88	0.0109	±4.70
102	1.88	-0.0138	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (15M) CH18900(1880MHz) –16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	-0.0121	±4.70
-20	1.88	0.0079	±4.70
-10	1.88	-0.0100	±4.70
0	1.88	0.0126	±4.70
10	1.88	-0.0123	±4.70
20	1.88	0.0207	±4.70
30	1.88	0.0119	±4.70
40	1.88	-0.0092	±4.70
50	1.88	-0.0073	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0105	±4.70
120	1.88	0.0207	±4.70
102	1.88	0.0106	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (20M) CH18900(1880MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0240	±4.70
-20	1.88	0.0098	±4.70
-10	1.88	0.0105	±4.70
0	1.88	-0.0167	±4.70
10	1.88	0.0178	±4.70
20	1.88	0.0125	±4.70
30	1.88	0.0143	±4.70
40	1.88	0.0133	±4.70
50	1.88	0.0121	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0140	±4.70
120	1.88	0.0125	±4.70
102	1.88	0.0090	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 2 (20M) CH18900(1880MHz) –16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.88	0.0073	±4.70
-20	1.88	0.0096	±4.70
-10	1.88	0.0078	±4.70
0	1.88	0.0085	±4.70
10	1.88	-0.0111	±4.70
20	1.88	-0.0133	±4.70
30	1.88	0.0117	±4.70
40	1.88	0.0136	±4.70
50	1.88	-0.0122	±4.70

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.88	0.0166	±4.70
120	1.88	-0.0133	±4.70
102	1.88	0.0102	±4.70

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (1.4M) CH20175(1732.5MHz) –QPSK	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0141	±4.33
-20	1.73	-0.0120	±4.33
-10	1.73	-0.0111	±4.33
0	1.73	0.0140	±4.33
10	1.73	-0.0120	±4.33
20	1.73	-0.0122	±4.33
30	1.73	-0.0131	±4.33
40	1.73	-0.0115	±4.33
50	1.73	-0.0107	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0119	±4.33
120	1.73	-0.0122	±4.33
102	1.73	-0.0107	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (1.4M) CH20175(1732.5MHz) –16QAM	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0104	±4.33
-20	1.73	-0.0158	±4.33
-10	1.73	0.0085	±4.33
0	1.73	-0.0097	±4.33
10	1.73	0.0122	±4.33
20	1.73	0.0134	±4.33
30	1.73	0.0119	±4.33
40	1.73	0.0106	±4.33
50	1.73	0.0144	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0102	±4.33
120	1.73	0.0134	±4.33
102	1.73	0.0097	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (3M) CH20175(1732.5MHz) –QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0102	±4.33
-20	1.73	0.0095	±4.33
-10	1.73	0.0125	±4.33
0	1.73	-0.0146	±4.33
10	1.73	0.0121	±4.33
20	1.73	-0.0209	±4.33
30	1.73	0.0166	±4.33
40	1.73	0.0100	±4.33
50	1.73	-0.0142	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0142	±4.33
120	1.73	-0.0209	±4.33
102	1.73	-0.0131	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (3M) CH20175(1732.5MHz) –16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	0.0152	±4.33
-20	1.73	-0.0100	±4.33
-10	1.73	-0.0115	±4.33
0	1.73	-0.0166	±4.33
10	1.73	0.0132	±4.33
20	1.73	-0.0135	±4.33
30	1.73	-0.0112	±4.33
40	1.73	-0.0141	±4.33
50	1.73	-0.0109	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0112	±4.33
120	1.73	-0.0135	±4.33
102	1.73	-0.0138	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (5M) CH20175(1732.5MHz) –QPSK	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0128	±4.33
-20	1.73	-0.0116	±4.33
-10	1.73	0.0112	±4.33
0	1.73	-0.0145	±4.33
10	1.73	-0.0122	±4.33
20	1.73	-0.0153	±4.33
30	1.73	-0.0140	±4.33
40	1.73	-0.0144	±4.33
50	1.73	-0.0182	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0128	±4.33
120	1.73	-0.0153	±4.33
102	1.73	0.0102	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (5M) CH20175(1732.5MHz) –16QAM	Test Range	-20℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0117	±4.33
-20	1.73	-0.0106	±4.33
-10	1.73	-0.0120	±4.33
0	1.73	0.0162	±4.33
10	1.73	-0.0127	±4.33
20	1.73	0.0176	±4.33
30	1.73	0.0117	±4.33
40	1.73	-0.0098	±4.33
50	1.73	-0.0162	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0135	±4.33
120	1.73	0.0176	±4.33
102	1.73	-0.0105	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (10M) CH20175(1732.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0098	±4.33
-20	1.73	-0.0118	±4.33
-10	1.73	-0.0095	±4.33
0	1.73	0.0085	±4.33
10	1.73	-0.0112	±4.33
20	1.73	-0.0115	±4.33
30	1.73	-0.0166	±4.33
40	1.73	-0.0110	±4.33
50	1.73	-0.0102	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0140	±4.33
120	1.73	-0.0115	±4.33
102	1.73	-0.0174	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (10M) CH20175(1732.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	0.0106	±4.33
-20	1.73	0.0112	±4.33
-10	1.73	0.0146	±4.33
0	1.73	-0.0172	±4.33
10	1.73	-0.0140	±4.33
20	1.73	-0.0174	±4.33
30	1.73	-0.0227	±4.33
40	1.73	0.0106	±4.33
50	1.73	-0.0119	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0115	±4.33
120	1.73	-0.0174	±4.33
102	1.73	-0.0147	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (15M) CH20175(1732.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0134	±4.33
-20	1.73	-0.0122	±4.33
-10	1.73	0.0139	±4.33
0	1.73	-0.0111	±4.33
10	1.73	-0.0107	±4.33
20	1.73	-0.0141	±4.33
30	1.73	-0.0114	±4.33
40	1.73	-0.0096	±4.33
50	1.73	-0.0140	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0143	±4.33
120	1.73	-0.0141	±4.33
102	1.73	-0.0109	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (15M) CH20175(1732.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	0.0092	±4.33
-20	1.73	0.0099	±4.33
-10	1.73	-0.0082	±4.33
0	1.73	0.0089	±4.33
10	1.73	-0.0140	±4.33
20	1.73	-0.0112	±4.33
30	1.73	-0.0118	±4.33
40	1.73	-0.0124	±4.33
50	1.73	-0.0088	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0108	±4.33
120	1.73	-0.0112	±4.33
102	1.73	0.0144	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (20M) CH20175(1732.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0165	±4.33
-20	1.73	-0.0137	±4.33
-10	1.73	-0.0073	±4.33
0	1.73	-0.0096	±4.33
10	1.73	-0.0114	±4.33
20	1.73	0.0094	±4.33
30	1.73	-0.0095	±4.33
40	1.73	-0.0140	±4.33
50	1.73	-0.0151	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	0.0149	±4.33
120	1.73	0.0094	±4.33
102	1.73	-0.0113	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 4 (20M) CH20175(1732.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	1.73	-0.0148	±4.33
-20	1.73	-0.0169	±4.33
-10	1.73	-0.0127	±4.33
0	1.73	-0.0124	±4.33
10	1.73	-0.0115	±4.33
20	1.73	0.0136	±4.33
30	1.73	-0.0098	±4.33
40	1.73	-0.0103	±4.33
50	1.73	-0.0125	±4.33

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	1.73	-0.0088	±4.33
120	1.73	0.0136	±4.33
102	1.73	-0.0111	±4.33

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (1.4M) CH20525(836.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0068	±2.09
-20	0.8365	0.0116	±2.09
-10	0.8365	-0.0111	±2.09
0	0.8365	0.0101	±2.09
10	0.8365	0.0090	±2.09
20	0.8365	0.0084	±2.09
30	0.8365	0.0062	±2.09
40	0.8365	0.0084	±2.09
50	0.8365	-0.0066	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0081	±2.09
120	0.8365	0.0084	±2.09
102	0.8365	0.0085	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (1.4M) CH20525(836.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0077	±2.09
-20	0.8365	0.0065	±2.09
-10	0.8365	0.0081	±2.09
0	0.8365	-0.0070	±2.09
10	0.8365	-0.0073	±2.09
20	0.8365	0.0096	±2.09
30	0.8365	-0.0091	±2.09
40	0.8365	0.0081	±2.09
50	0.8365	-0.0073	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0112	±2.09
120	0.8365	0.0096	±2.09
102	0.8365	0.0085	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (3M) CH20525(836.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	-0.0053	±2.09
-20	0.8365	0.0071	±2.09
-10	0.8365	0.0063	±2.09
0	0.8365	-0.0058	±2.09
10	0.8365	0.0092	±2.09
20	0.8365	-0.0066	±2.09
30	0.8365	0.0108	±2.09
40	0.8365	0.0080	±2.09
50	0.8365	-0.0059	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	-0.0052	±2.09
120	0.8365	-0.0066	±2.09
102	0.8365	-0.0061	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (3M) CH20525(836.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0081	±2.09
-20	0.8365	0.0088	±2.09
-10	0.8365	-0.0073	±2.09
0	0.8365	-0.0062	±2.09
10	0.8365	-0.0104	±2.09
20	0.8365	0.0065	±2.09
30	0.8365	-0.0050	±2.09
40	0.8365	0.0056	±2.09
50	0.8365	0.0080	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0076	±2.09
120	0.8365	0.0065	±2.09
102	0.8365	0.0057	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (5M) CH20525(836.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	-0.0100	±2.09
-20	0.8365	-0.0082	±2.09
-10	0.8365	0.0078	±2.09
0	0.8365	0.0094	±2.09
10	0.8365	0.0111	±2.09
20	0.8365	-0.0062	±2.09
30	0.8365	-0.0088	±2.09
40	0.8365	0.0078	±2.09
50	0.8365	0.0098	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0053	±2.09
120	0.8365	-0.0062	±2.09
102	0.8365	0.0072	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (5M) CH20525(836.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0062	±2.09
-20	0.8365	0.0074	±2.09
-10	0.8365	0.0102	±2.09
0	0.8365	0.0124	±2.09
10	0.8365	-0.0072	±2.09
20	0.8365	0.0088	±2.09
30	0.8365	0.0061	±2.09
40	0.8365	0.0078	±2.09
50	0.8365	0.0069	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0082	±2.09
120	0.8365	0.0088	±2.09
102	0.8365	0.0072	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (10M) CH20525(836.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	0.0093	±2.09
-20	0.8365	0.0070	±2.09
-10	0.8365	-0.0081	±2.09
0	0.8365	-0.0069	±2.09
10	0.8365	0.0067	±2.09
20	0.8365	0.0086	±2.09
30	0.8365	0.0084	±2.09
40	0.8365	0.0061	±2.09
50	0.8365	0.0064	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0068	±2.09
120	0.8365	0.0086	±2.09
102	0.8365	0.0076	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 5 (10M) CH20525(836.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.8365	-0.0063	±2.09
-20	0.8365	0.0072	±2.09
-10	0.8365	-0.0102	±2.09
0	0.8365	-0.0085	±2.09
10	0.8365	0.0072	±2.09
20	0.8365	0.0060	±2.09
30	0.8365	-0.0068	±2.09
40	0.8365	0.0067	±2.09
50	0.8365	-0.0075	±2.09

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.8365	0.0076	±2.09
120	0.8365	0.0060	±2.09
102	0.8365	0.0069	±2.09

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (1.4M) CH23095(707.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0050	±1.77
-20	0.7075	-0.0066	±1.77
-10	0.7075	0.0078	±1.77
0	0.7075	0.0096	±1.77
10	0.7075	0.0057	±1.77
20	0.7075	0.0089	±1.77
30	0.7075	0.0077	±1.77
40	0.7075	0.0069	±1.77
50	0.7075	0.0032	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0077	±1.77
120	0.7075	0.0089	±1.77
102	0.7075	-0.0066	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (1.4M) CH23095(707.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0065	±1.77
-20	0.7075	0.0071	±1.77
-10	0.7075	0.0077	±1.77
0	0.7075	0.0127	±1.77
10	0.7075	0.0058	±1.77
20	0.7075	0.0094	±1.77
30	0.7075	0.0103	±1.77
40	0.7075	0.0076	±1.77
50	0.7075	0.0062	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0073	±1.77
120	0.7075	0.0094	±1.77
102	0.7075	0.0083	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (3M) CH23095(707.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	-0.0059	±1.77
-20	0.7075	0.0070	±1.77
-10	0.7075	0.0092	±1.77
0	0.7075	0.0088	±1.77
10	0.7075	0.0106	±1.77
20	0.7075	0.0092	±1.77
30	0.7075	-0.0069	±1.77
40	0.7075	-0.0074	±1.77
50	0.7075	0.0080	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0071	±1.77
120	0.7075	0.0092	±1.77
102	0.7075	0.0062	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (3M) CH23095(707.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	-0.0047	±1.77
-20	0.7075	-0.0052	±1.77
-10	0.7075	-0.0082	±1.77
0	0.7075	0.0076	±1.77
10	0.7075	-0.0092	±1.77
20	0.7075	0.0076	±1.77
30	0.7075	0.0094	±1.77
40	0.7075	-0.0066	±1.77
50	0.7075	0.0073	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0069	±1.77
120	0.7075	0.0076	±1.77
102	0.7075	0.0072	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (5M) CH23095(707.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0068	±1.77
-20	0.7075	0.0051	±1.77
-10	0.7075	0.0073	±1.77
0	0.7075	-0.0065	±1.77
10	0.7075	-0.0084	±1.77
20	0.7075	0.0095	±1.77
30	0.7075	0.0077	±1.77
40	0.7075	0.0074	±1.77
50	0.7075	0.0088	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0075	±1.77
120	0.7075	0.0095	±1.77
102	0.7075	0.0091	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (5M) CH23095(707.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0062	±1.77
-20	0.7075	0.0100	±1.77
-10	0.7075	0.0075	±1.77
0	0.7075	0.0071	±1.77
10	0.7075	0.0078	±1.77
20	0.7075	0.0104	±1.77
30	0.7075	0.0065	±1.77
40	0.7075	0.0048	±1.77
50	0.7075	0.0051	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	0.0103	±1.77
120	0.7075	0.0104	±1.77
102	0.7075	0.0100	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (10M) CH23095(707.5MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0070	±1.77
-20	0.7075	-0.0084	±1.77
-10	0.7075	0.0054	±1.77
0	0.7075	-0.0069	±1.77
10	0.7075	0.0074	±1.77
20	0.7075	-0.0078	±1.77
30	0.7075	0.0048	±1.77
40	0.7075	0.0069	±1.77
50	0.7075	0.0052	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0074	±1.77
120	0.7075	-0.0078	±1.77
102	0.7075	-0.0063	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 12 (10M) CH23095(707.5MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.7075	0.0082	±1.77
-20	0.7075	-0.0069	±1.77
-10	0.7075	-0.0048	±1.77
0	0.7075	0.0064	±1.77
10	0.7075	0.0073	±1.77
20	0.7075	0.0087	±1.77
30	0.7075	0.0063	±1.77
40	0.7075	0.0077	±1.77
50	0.7075	0.0068	±1.77

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.7075	-0.0073	±1.77
120	0.7075	0.0087	±1.77
102	0.7075	0.0084	±1.77

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (5M) CH23230(782MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	0.0064	±1.96
-20	0.782	0.0073	±1.96
-10	0.782	0.0080	±1.96
0	0.782	0.0088	±1.96
10	0.782	0.0096	±1.96
20	0.782	0.0102	±1.96
30	0.782	0.0089	±1.96
40	0.782	0.0099	±1.96
50	0.782	0.0066	±1.96

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	0.0089	±1.96
120	0.782	0.0120	±1.96
102	0.782	0.0102	±1.96

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (5M) CH23230(782MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	0.0054	±1.96
-20	0.782	0.0077	±1.96
-10	0.782	0.0065	±1.96
0	0.782	-0.0093	±1.96
10	0.782	-0.0073	±1.96
20	0.782	-0.0080	±1.96
30	0.782	0.0105	±1.96
40	0.782	-0.0074	±1.96
50	0.782	0.0083	±1.96

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	0.0093	±1.96
120	0.782	-0.0080	±1.96
102	0.782	-0.0095	±1.96

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (10M) CH23230(782MHz)-QPSK	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	0.0062	±1.96
-20	0.782	0.0093	±1.96
-10	0.782	0.0079	±1.96
0	0.782	0.0061	±1.96
10	0.782	0.0064	±1.96
20	0.782	0.0080	±1.96
30	0.782	0.0085	±1.96
40	0.782	0.0076	±1.96
50	0.782	0.0058	±1.96

Voltage Variations

AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	-0.0082	±1.96
120	0.782	0.0080	±1.96
102	0.782	-0.0082	±1.96

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2017/06/12	Test Site	CTR
Test Condition	Band 13 (10M) CH23230(782MHz)-16QAM	Test Range	-30℃~+50℃

Frequency Stability Under Temperature Variations

Temperature Interval(℃)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
-30	0.782	-0.0068	±1.96
-20	0.782	-0.0083	±1.96
-10	0.782	-0.0072	±1.96
0	0.782	0.0094	±1.96
10	0.782	0.0062	±1.96
20	0.782	-0.0068	±1.96
30	0.782	0.0061	±1.96
40	0.782	0.0057	±1.96
50	0.782	0.0055	±1.96

Voltage Variations

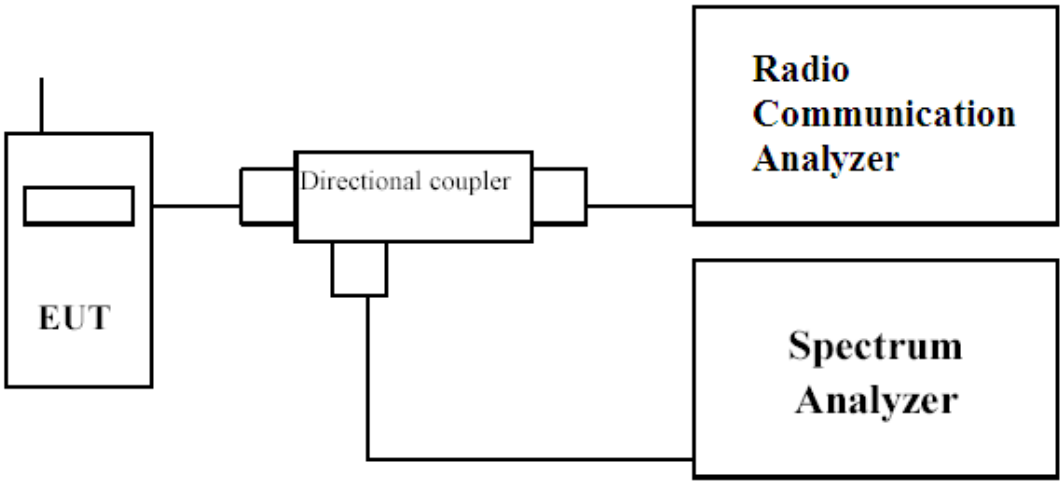
AC Voltage (V)	Test Frequency (GHz)	Deviation (kHz)	Limit (kHz)
138	0.782	0.0710	±1.96
120	0.782	-0.0068	±1.96
102	0.782	0.0076	±1.96

8. Peak to Average Ratio

8.1 Test Specification

According to Part 27.50(a), IC RSS 130, RSS 132, RSS 133, RSS 139

8.2 Test Setup



8.3 Limits

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

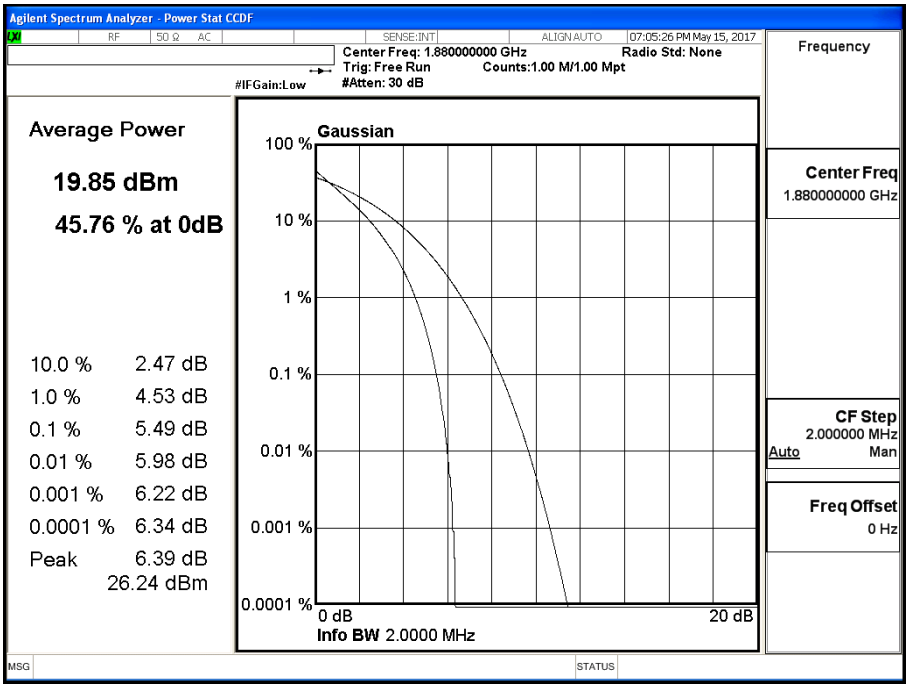
8.4 Test Procedure

a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
c) Set the number of counts to a value that stabilizes the measured CCDF curve;
d) Set the measurement interval as follows:
   1) for continuous transmissions, set to 1 ms,
   2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
e) Record the maximum PAPR level associated with a probability of 0.1%.

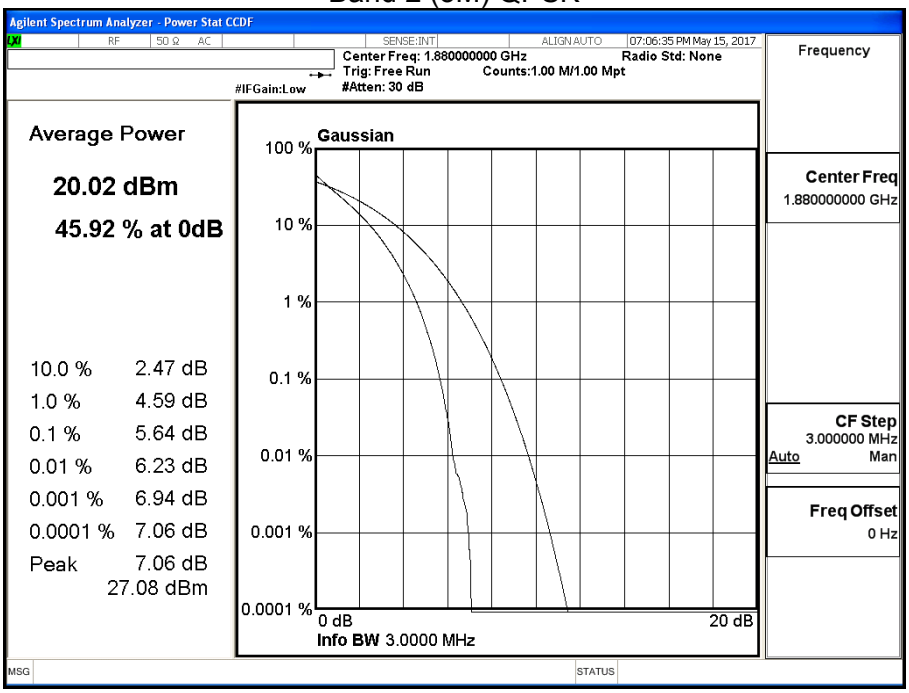
8.5 Test Result of Spurious Emission

Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 2		

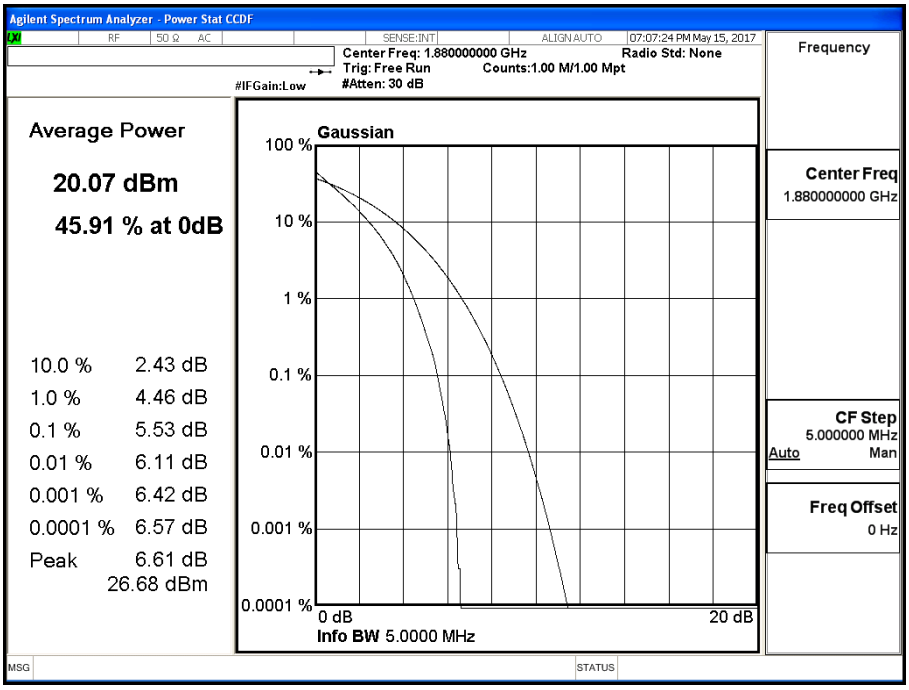
Band 2 (1.4M) QPSK



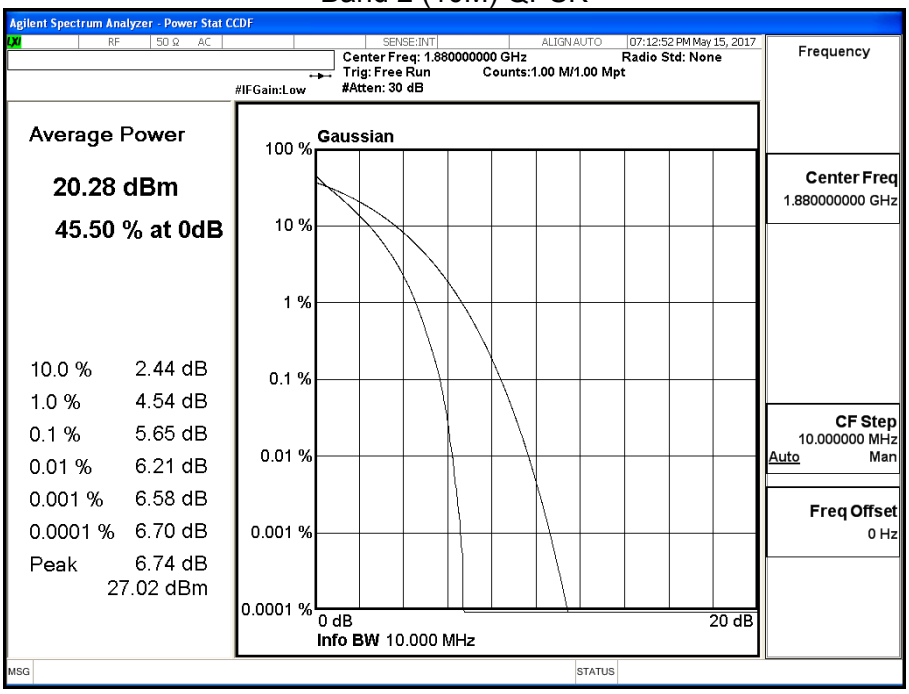
Band 2 (3M) QPSK



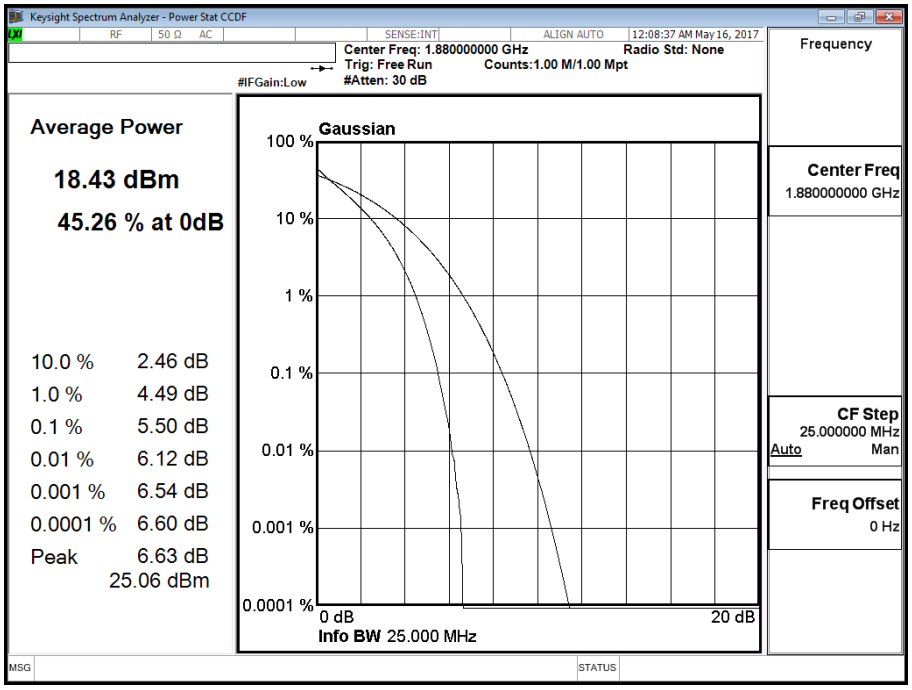
Band 2 (5M) QPSK



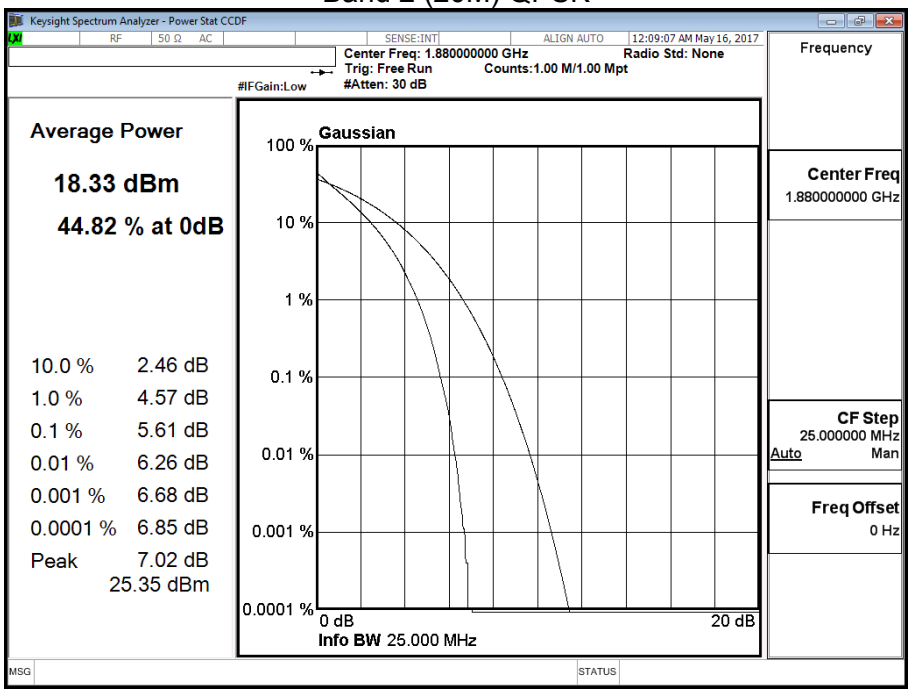
Band 2 (10M) QPSK



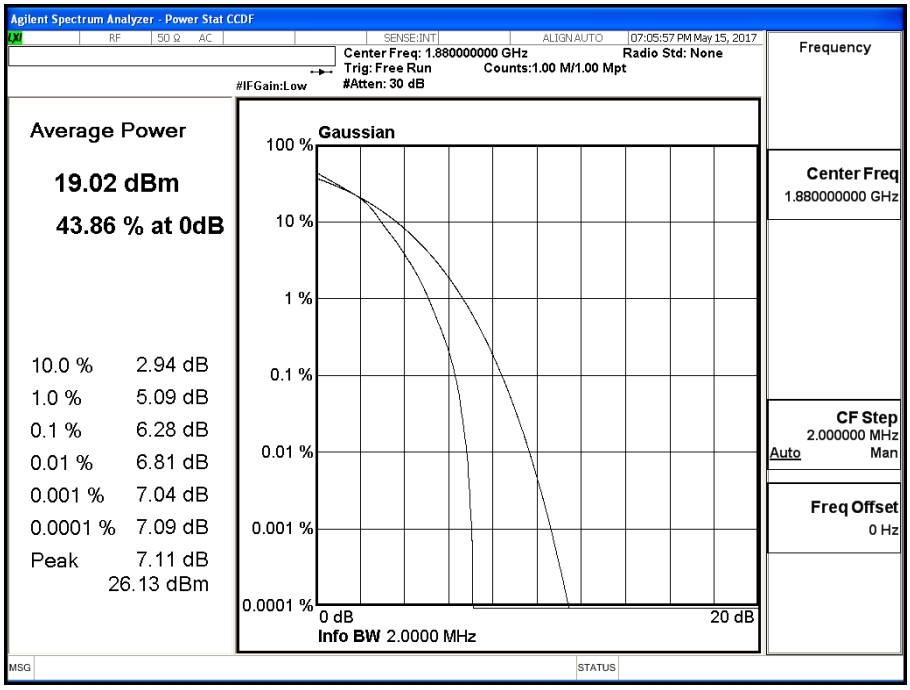
Band 2 (15M) QPSK



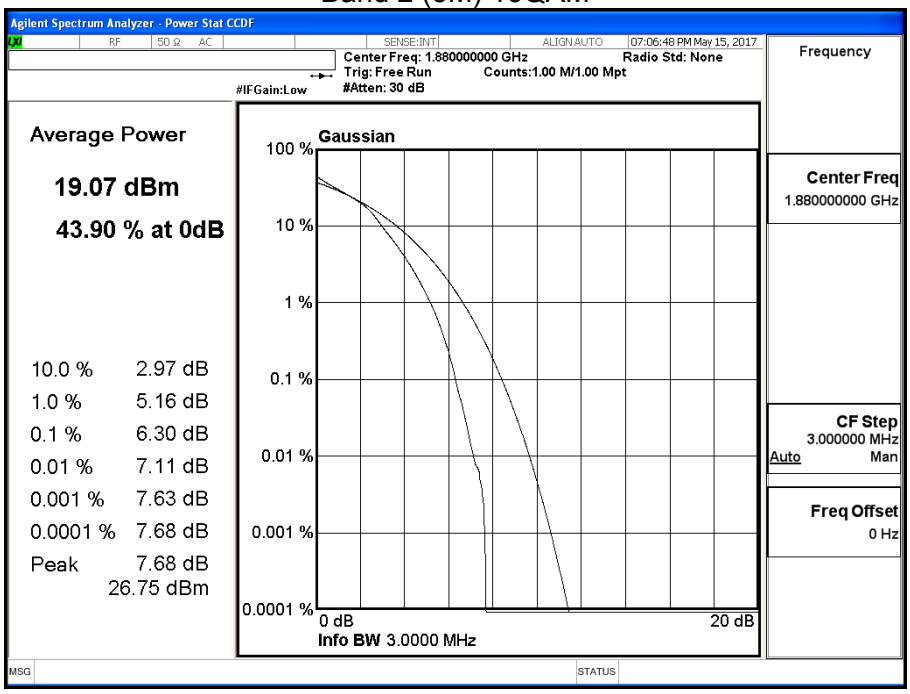
Band 2 (20M) QPSK



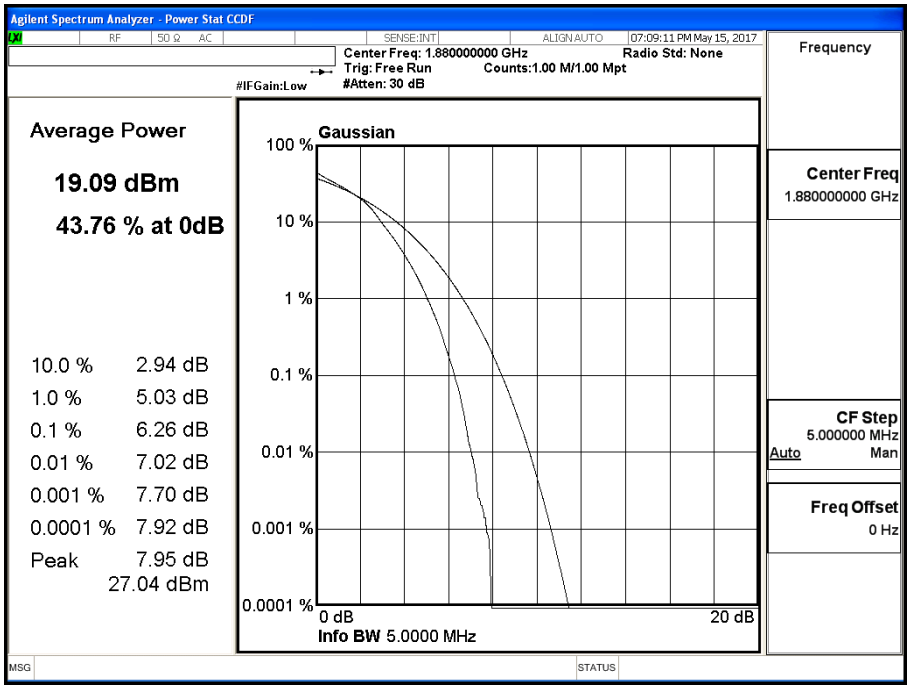
Band 2 (1.4M) 16QAM



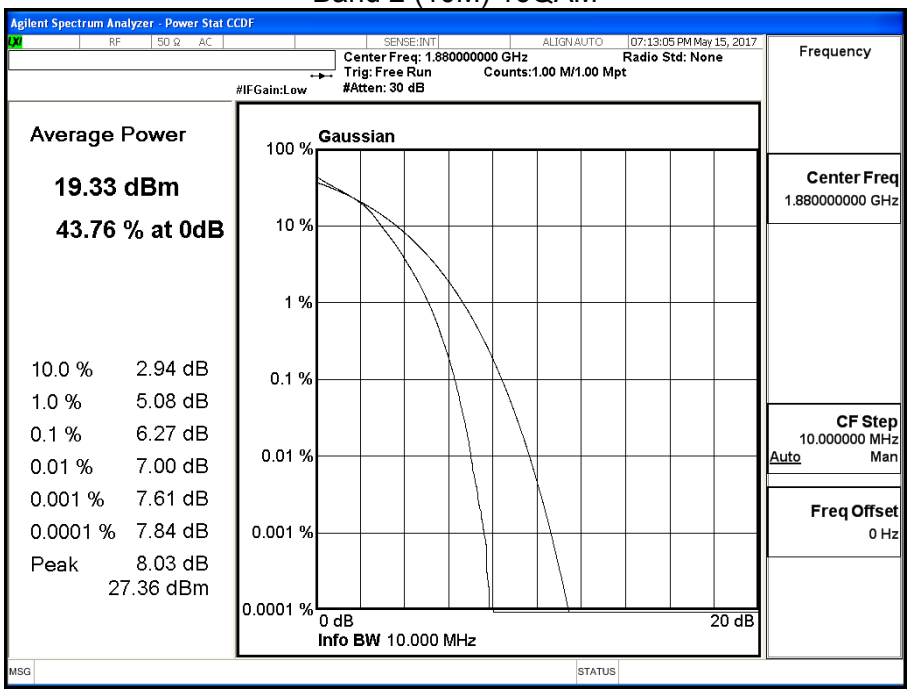
Band 2 (3M) 16QAM



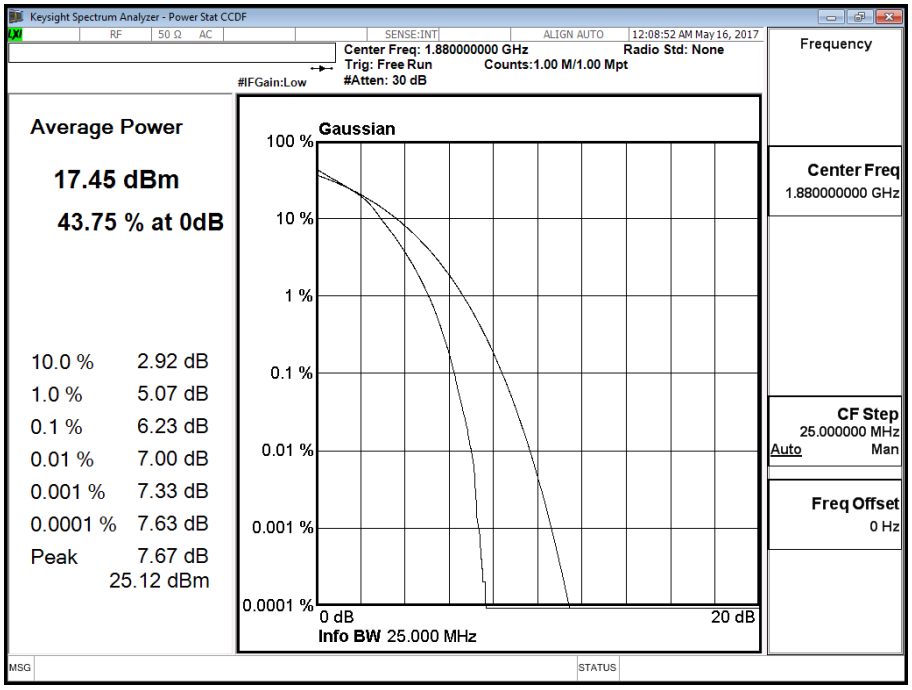
Band 2 (5M) 16QAM



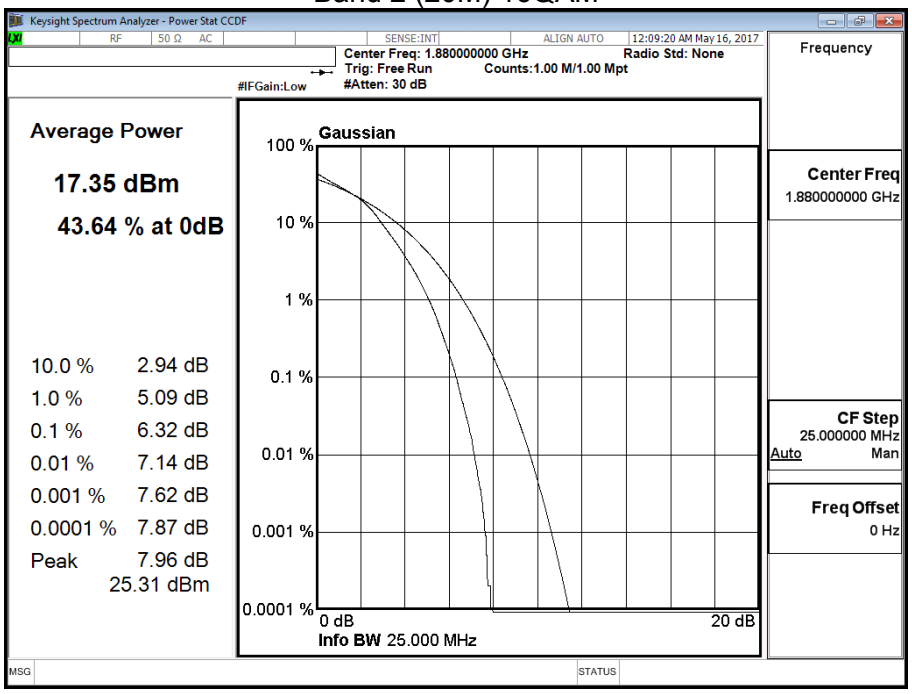
Band 2 (10M) 16QAM



Band 2 (15M) 16QAM

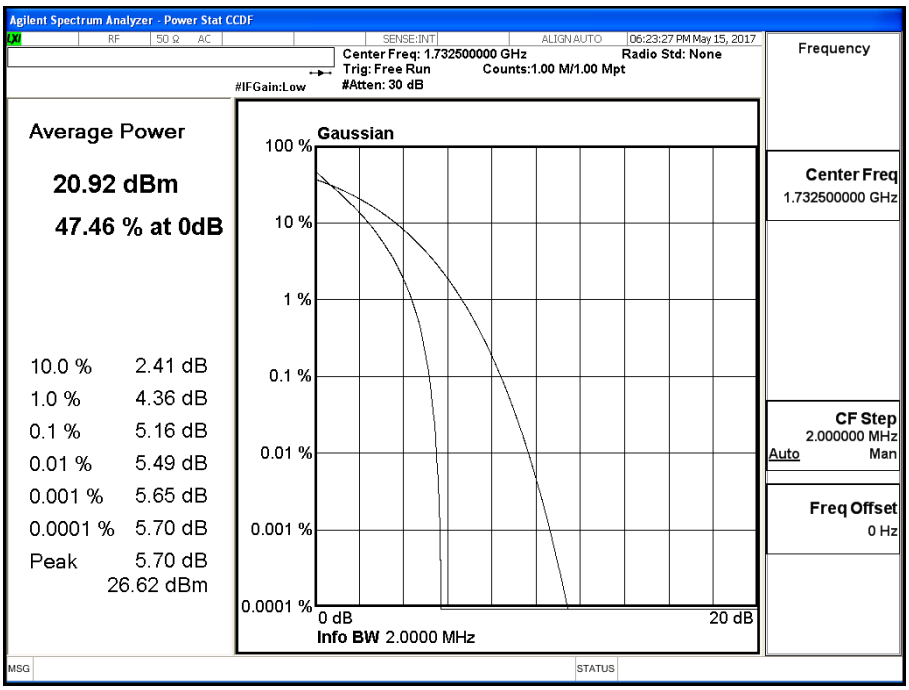


Band 2 (20M) 16QAM

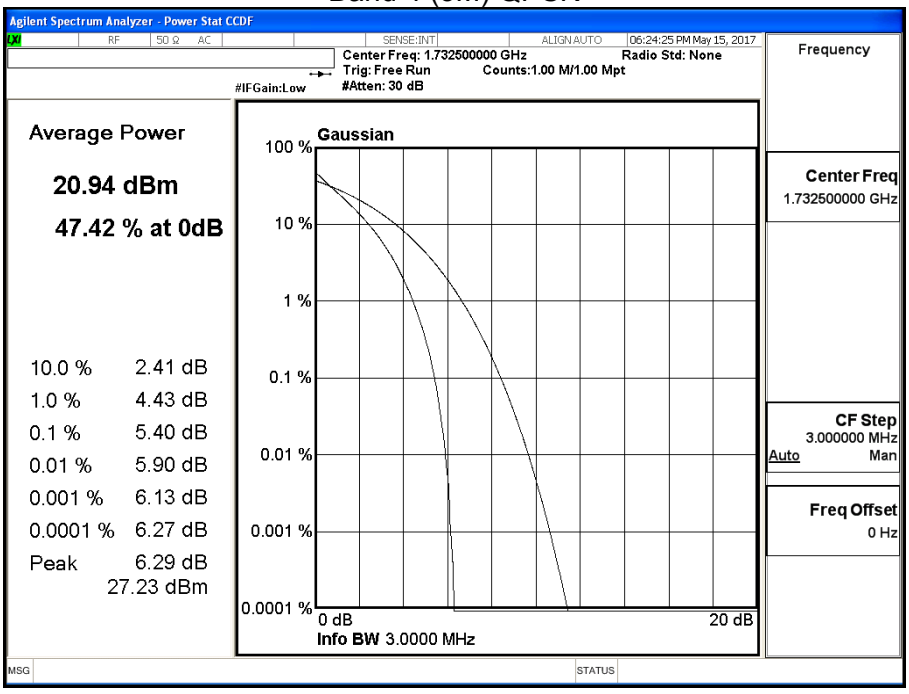


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 4		

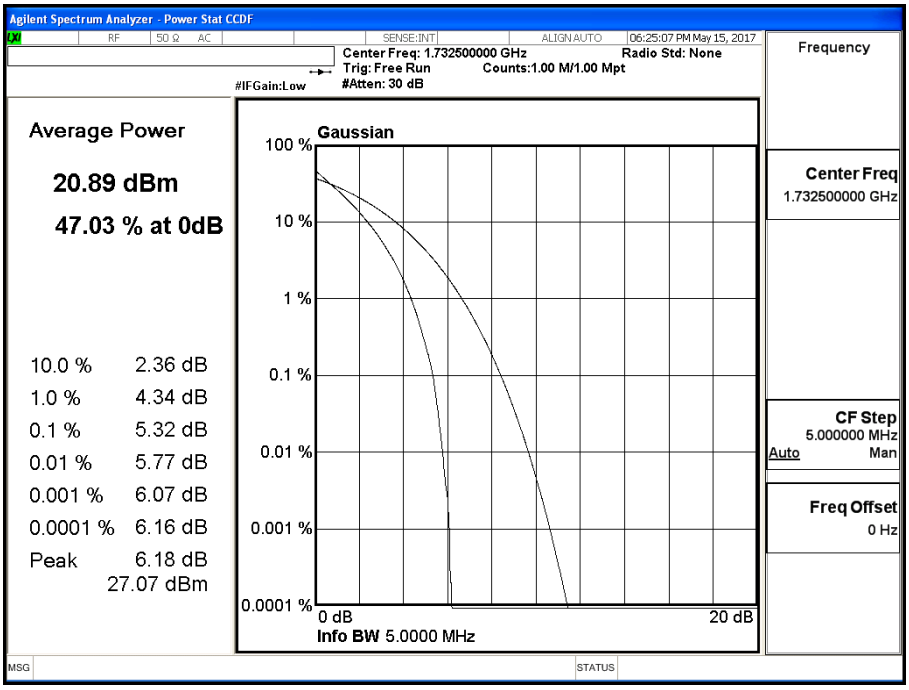
Band 4 (1.4M) QPSK



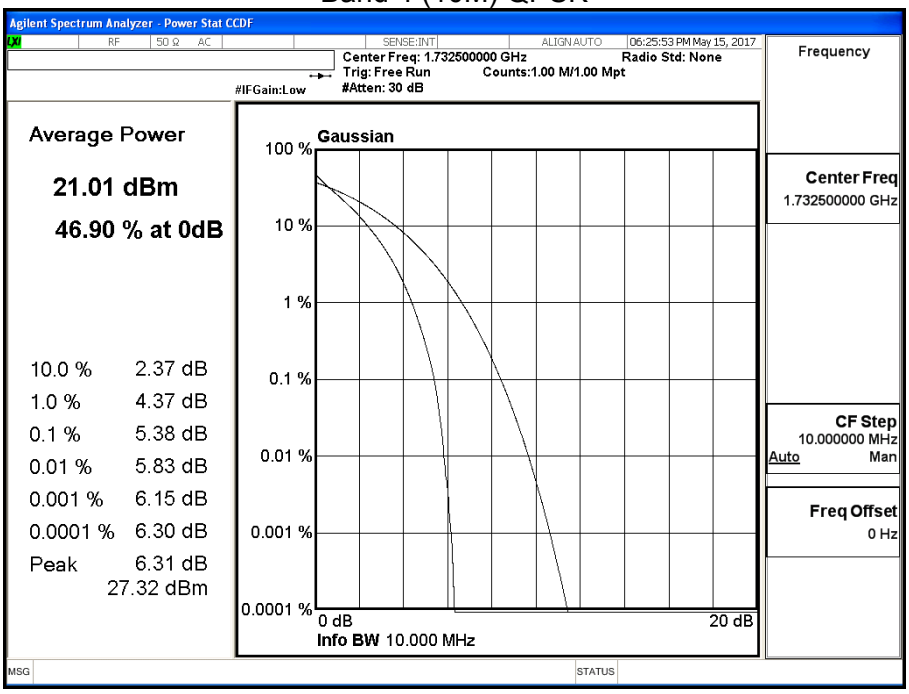
Band 4 (3M) QPSK



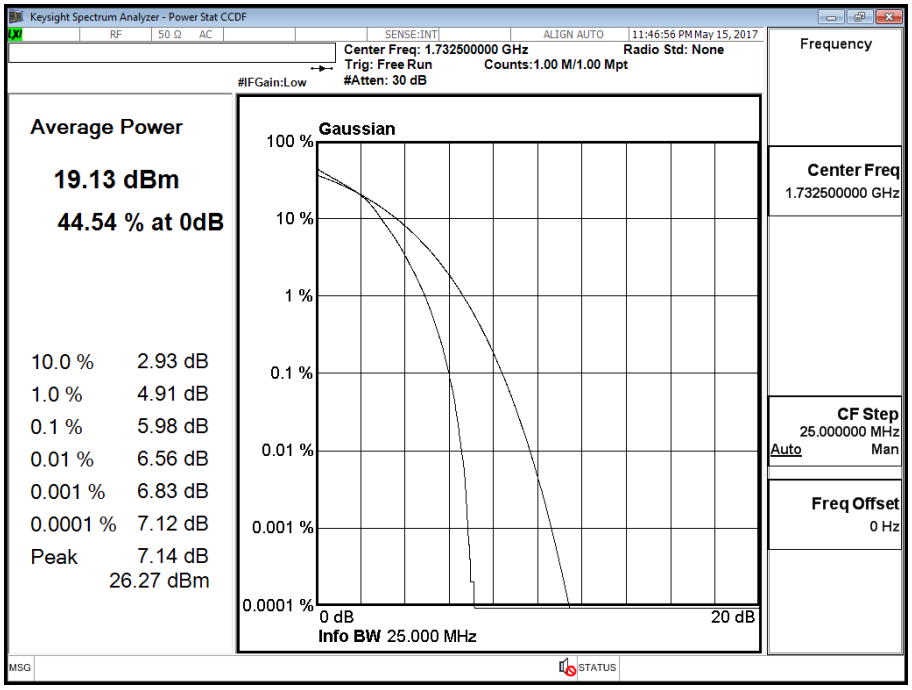
Band 4 (5M) QPSK



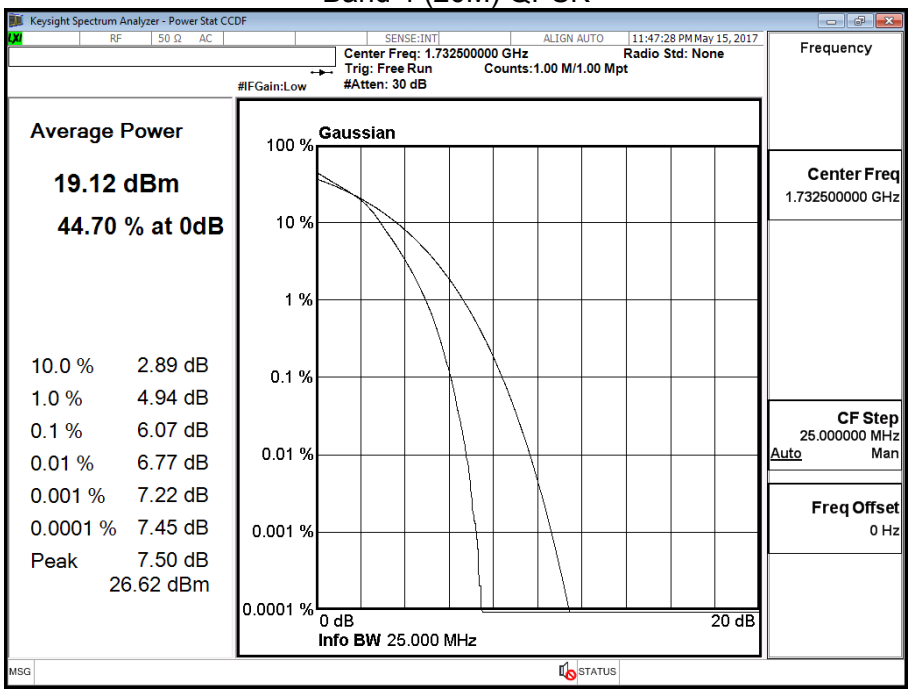
Band 4 (10M) QPSK



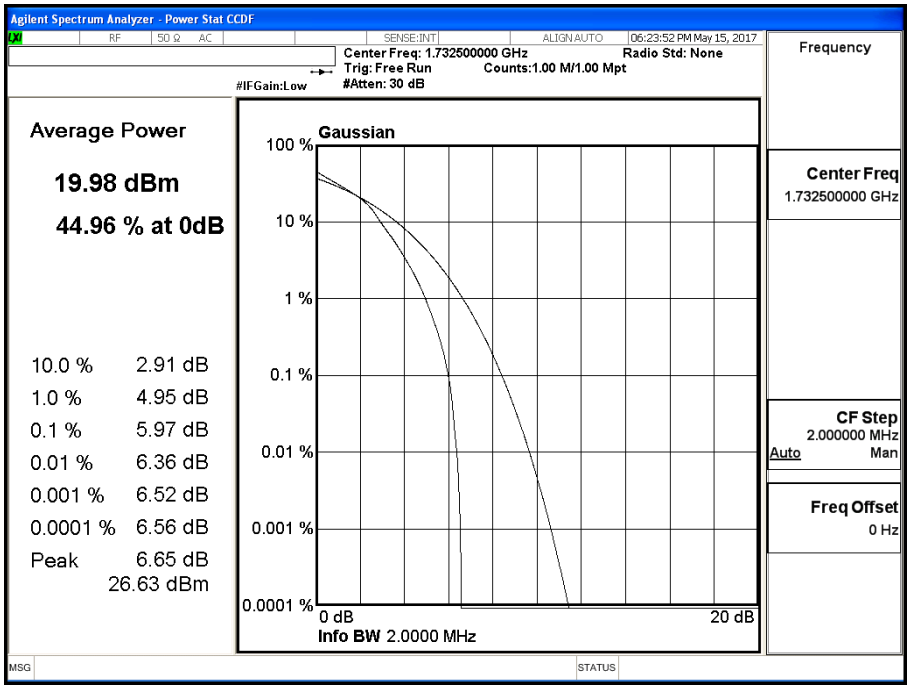
Band 4 (15M) QPSK



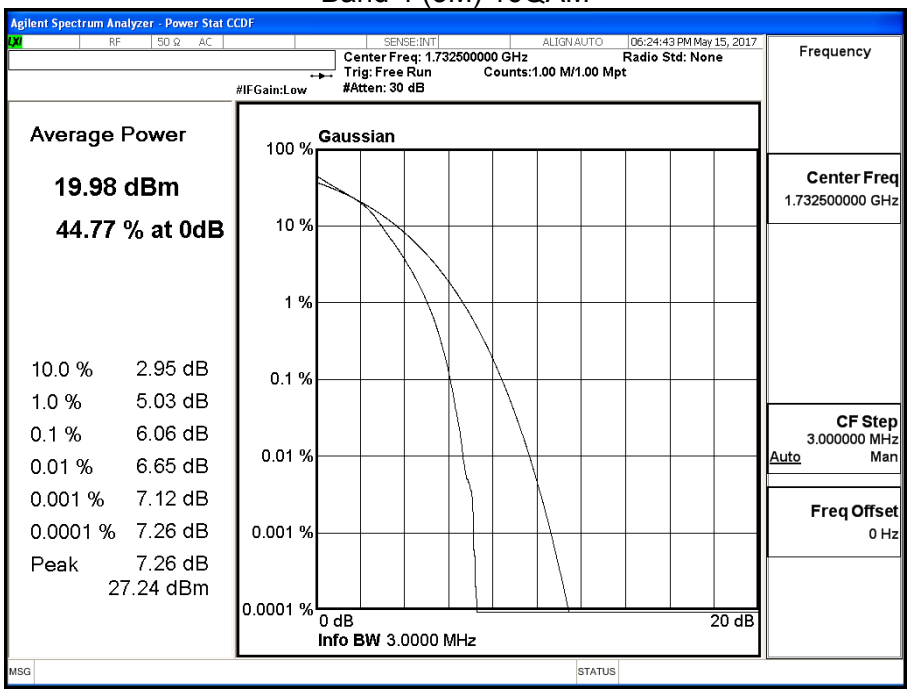
Band 4 (20M) QPSK



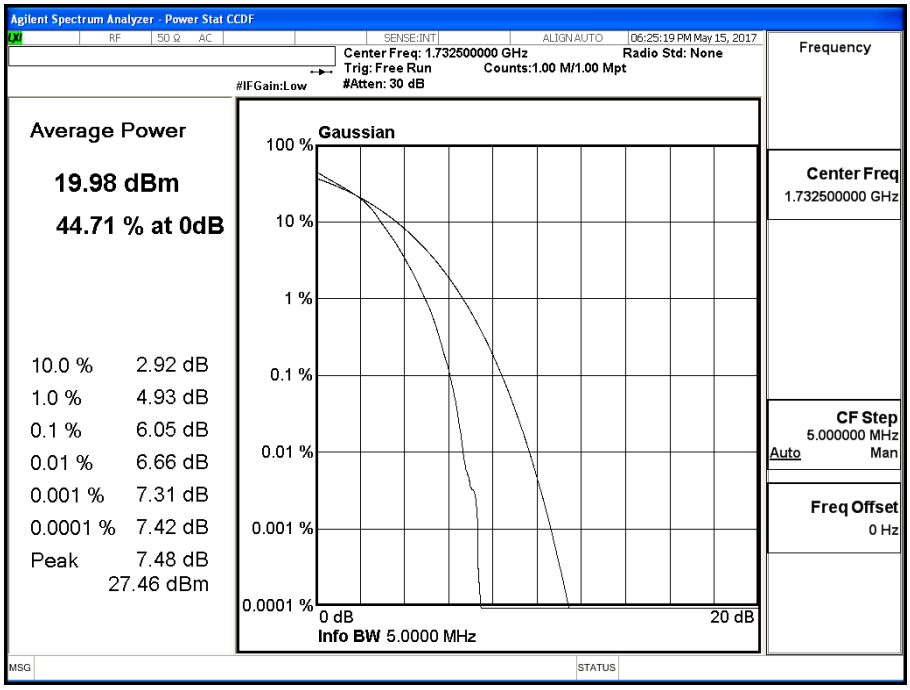
Band 4 (1.4M) 16QAM



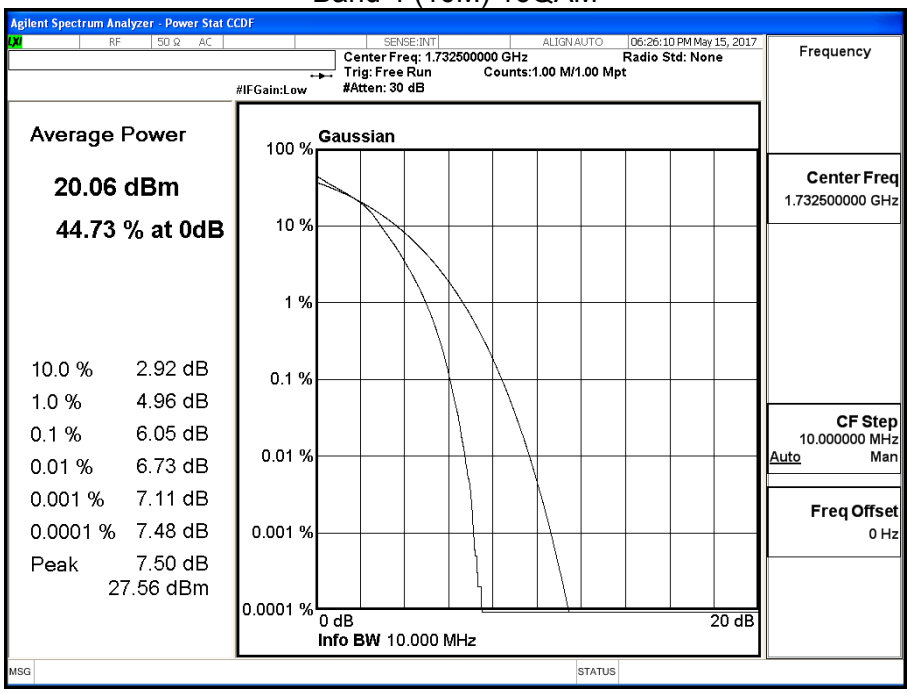
Band 4 (3M) 16QAM



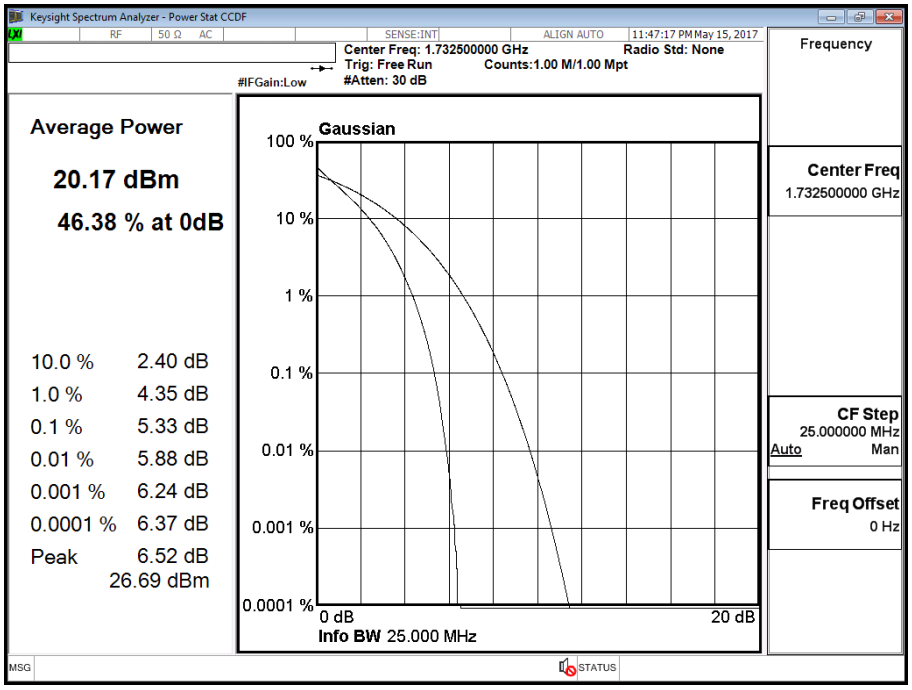
Band 4 (5M) 16QAM



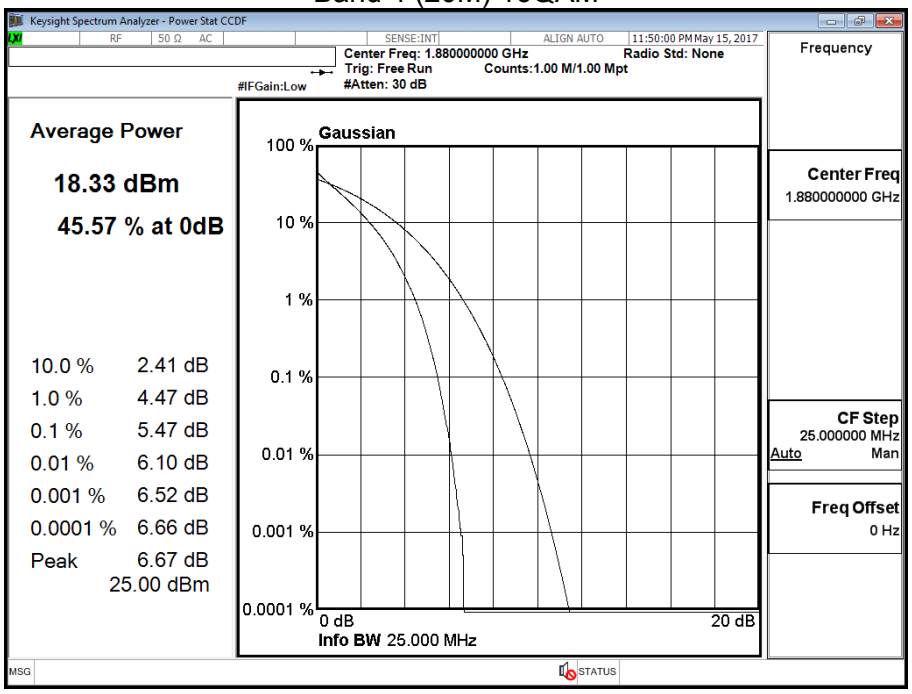
Band 4 (10M) 16QAM



Band 4 (15M) 16QAM

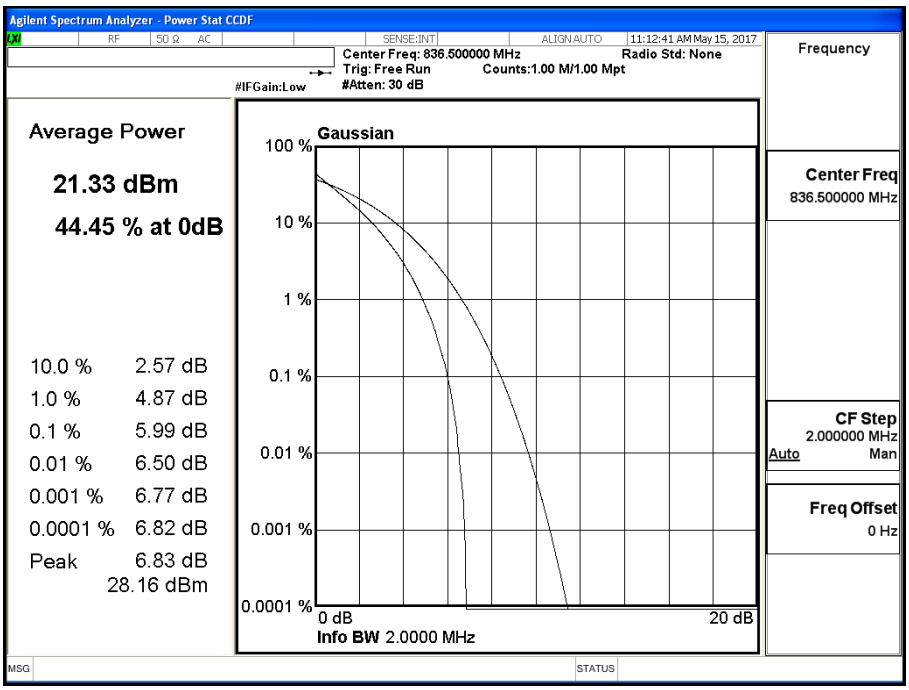


Band 4 (20M) 16QAM

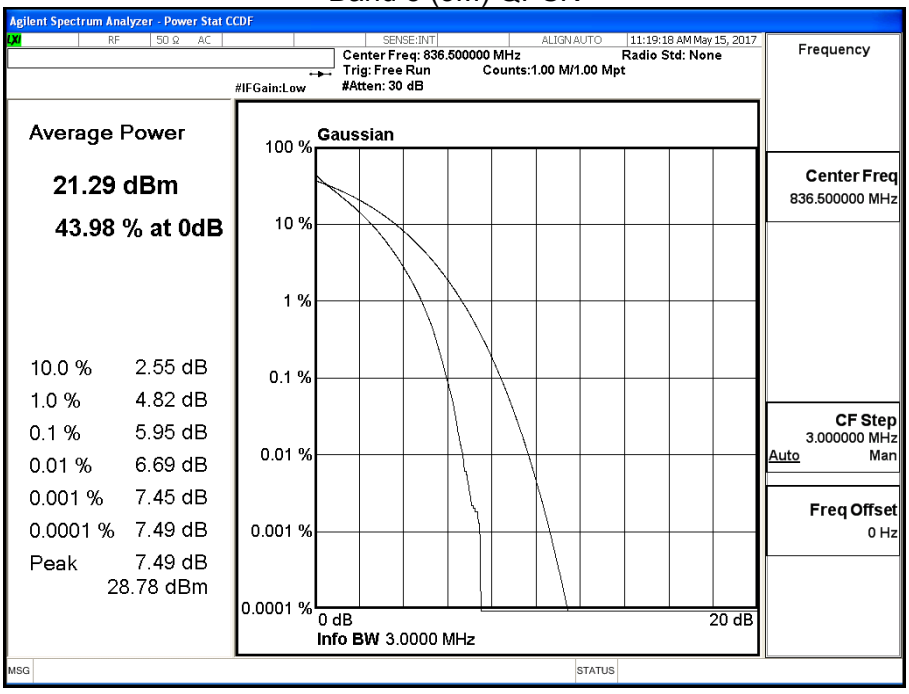


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 5		

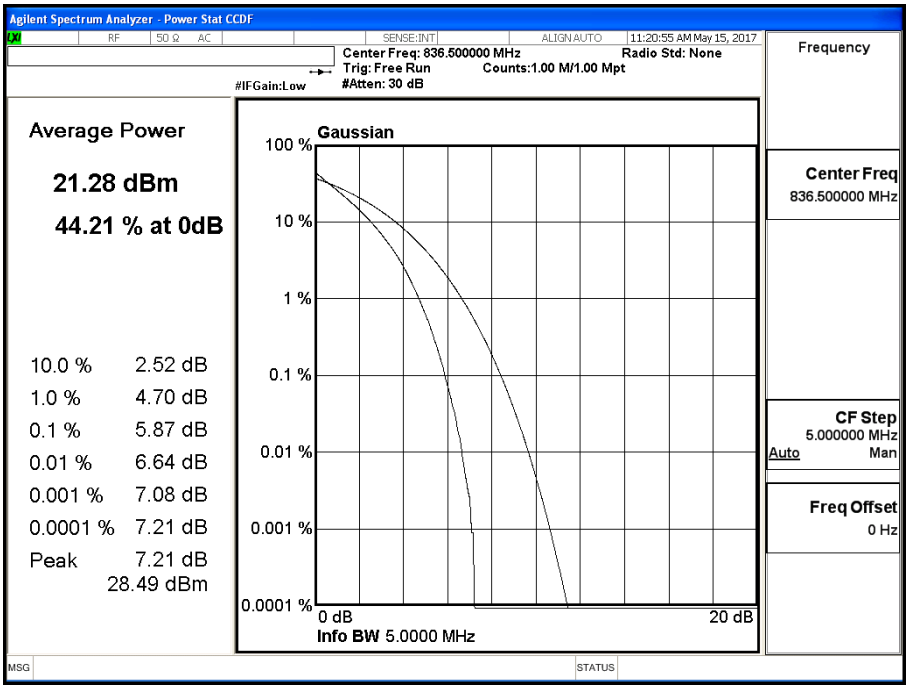
Band 5 (1.4M) QPSK



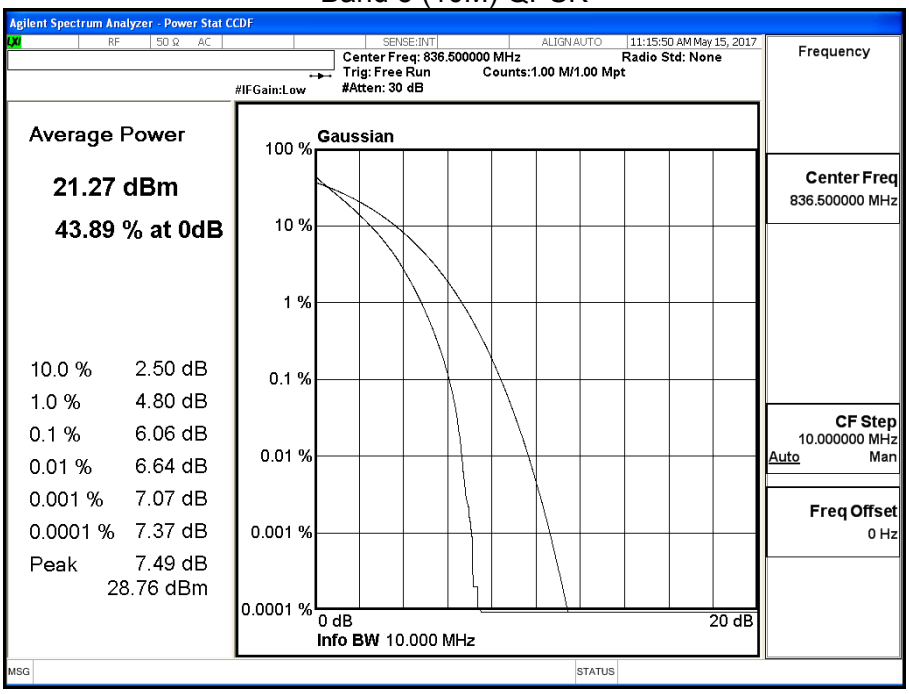
Band 5 (3M) QPSK



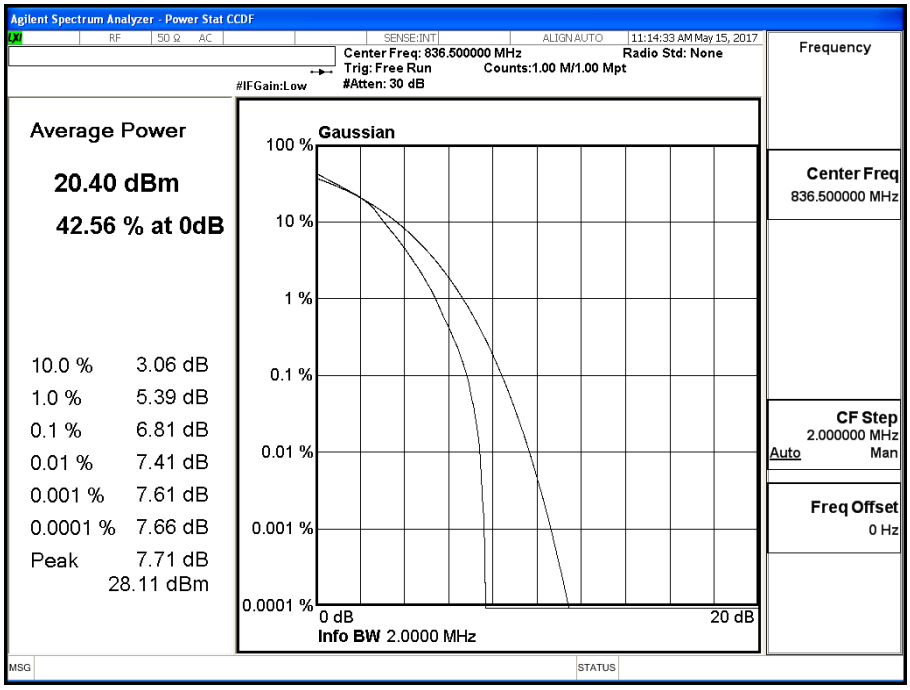
Band 5 (5M) QPSK



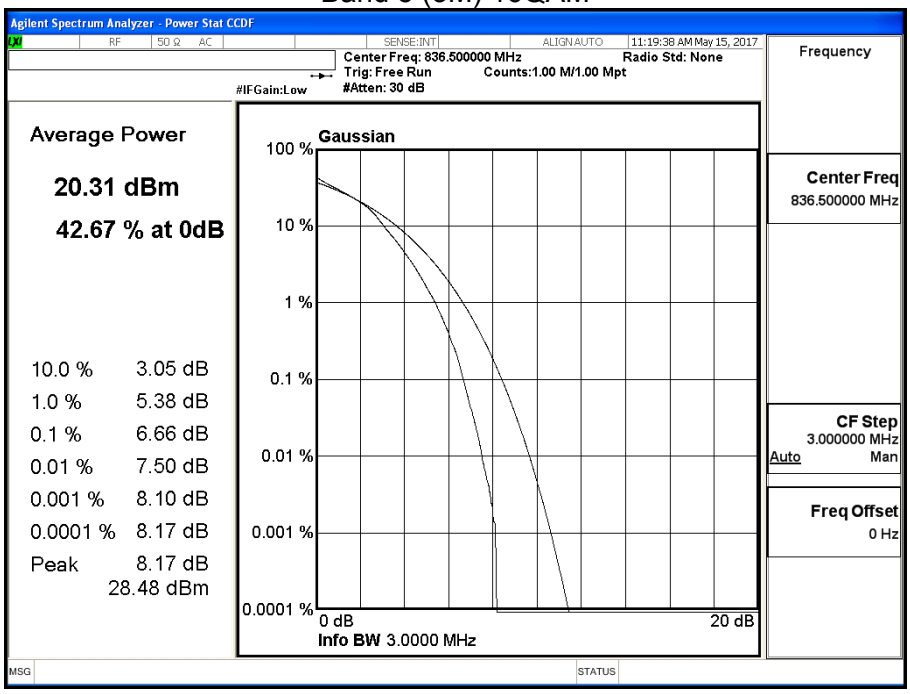
Band 5 (10M) QPSK



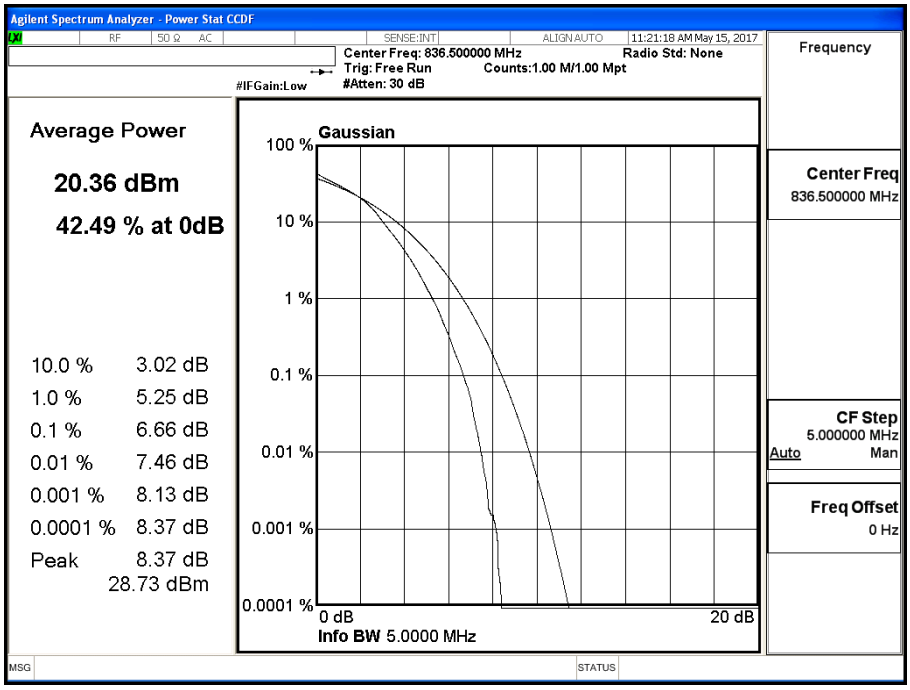
Band 5 (1.4M) 16QAM



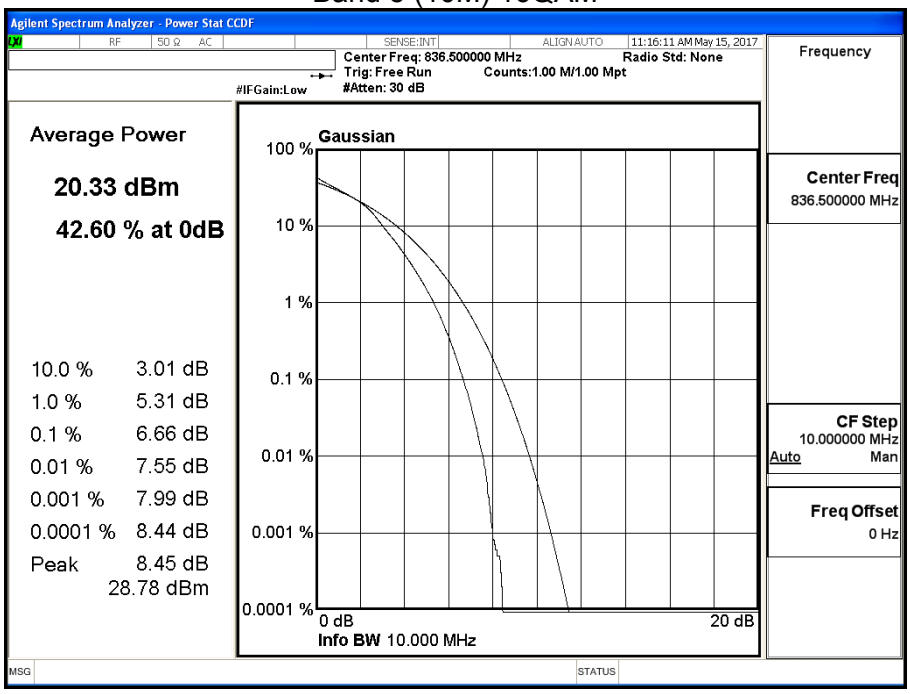
Band 5 (3M) 16QAM



Band 5 (5M) 16QAM

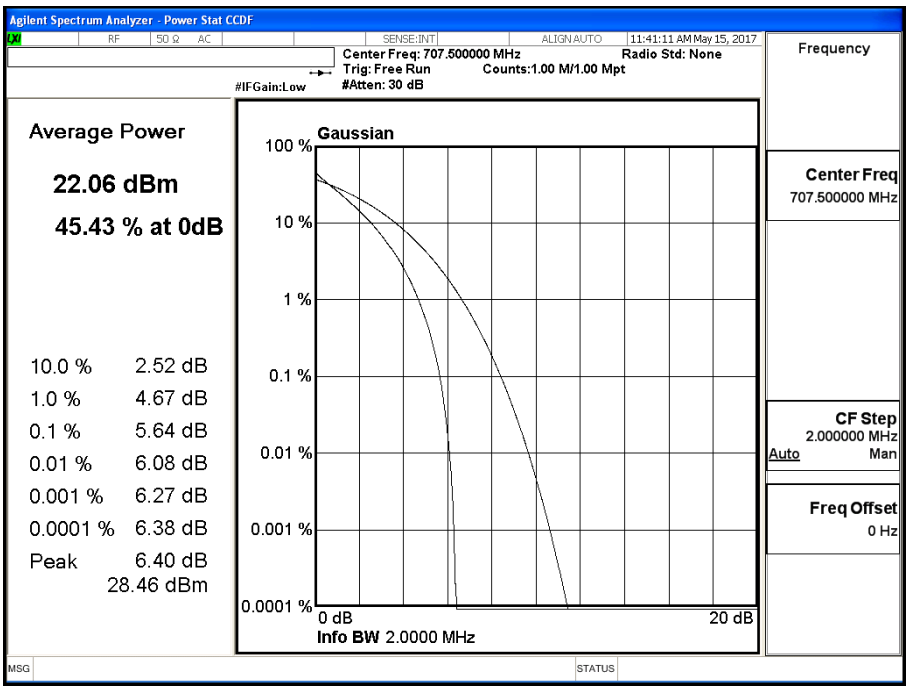


Band 5 (10M) 16QAM

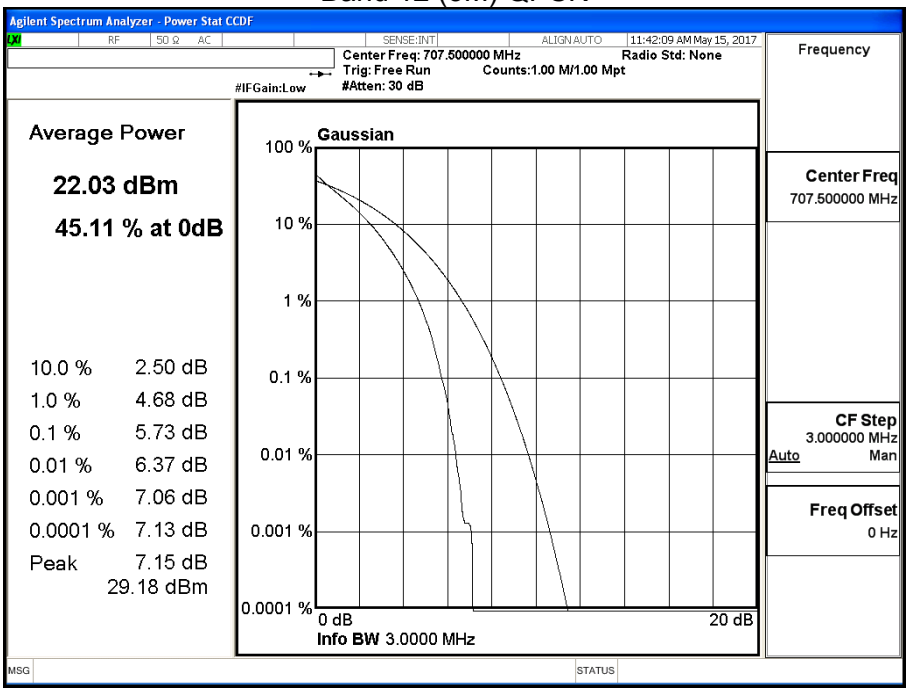


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 12		

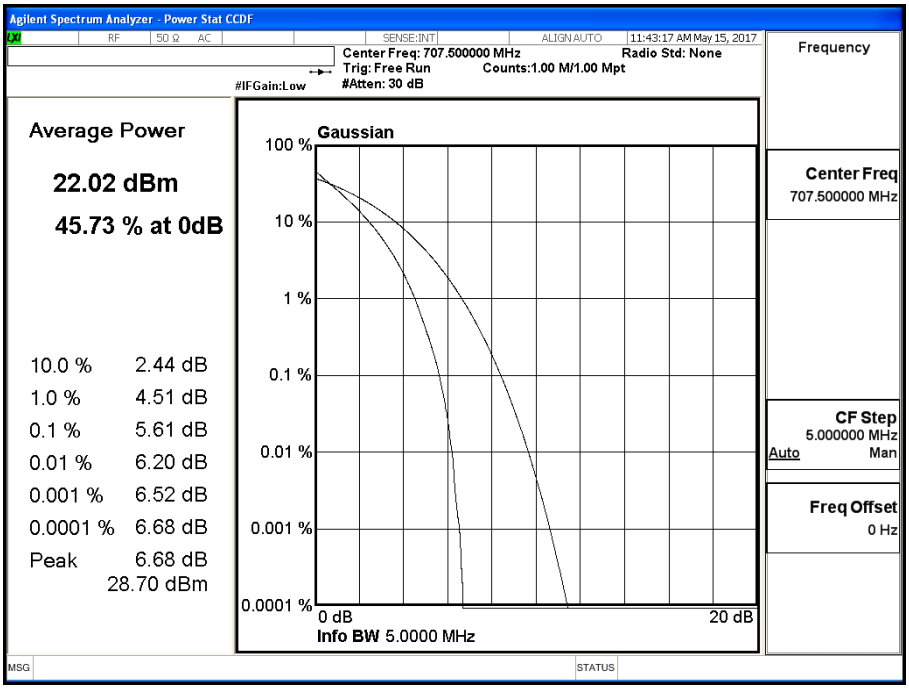
Band 12 (1.4M) QPSK



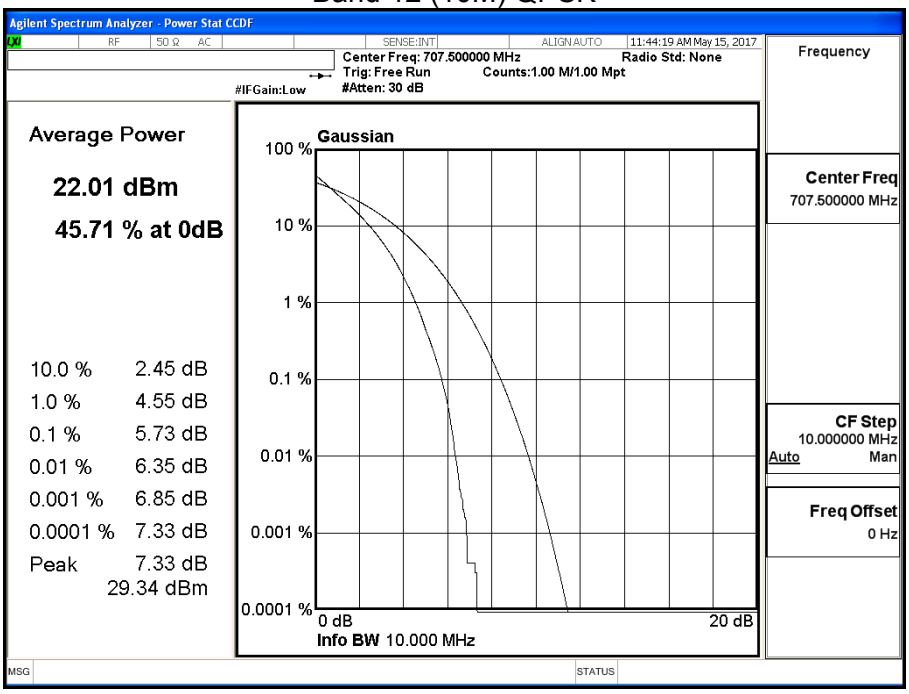
Band 12 (3M) QPSK



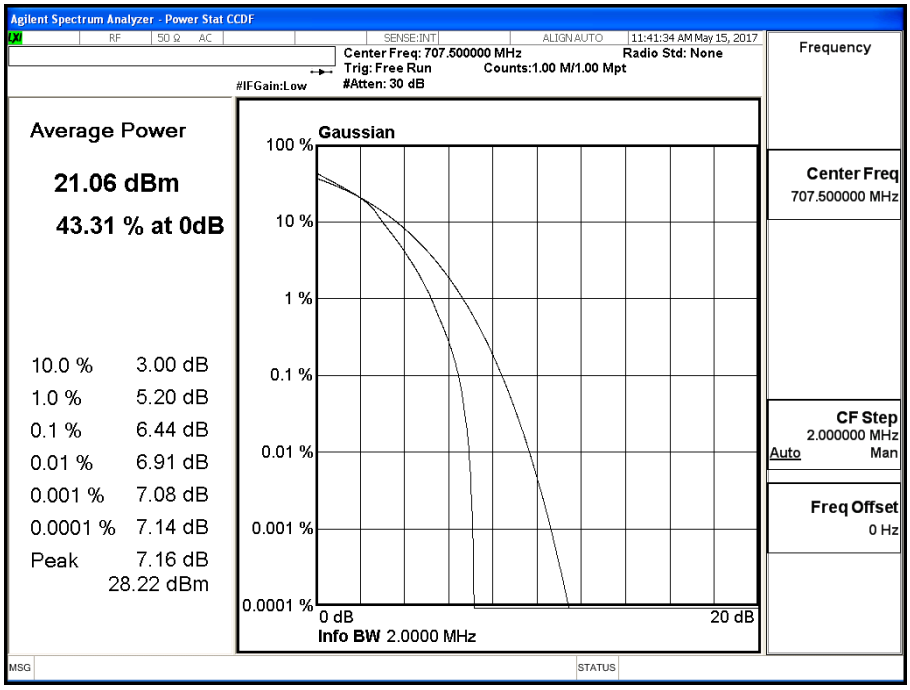
Band 12 (5M) QPSK



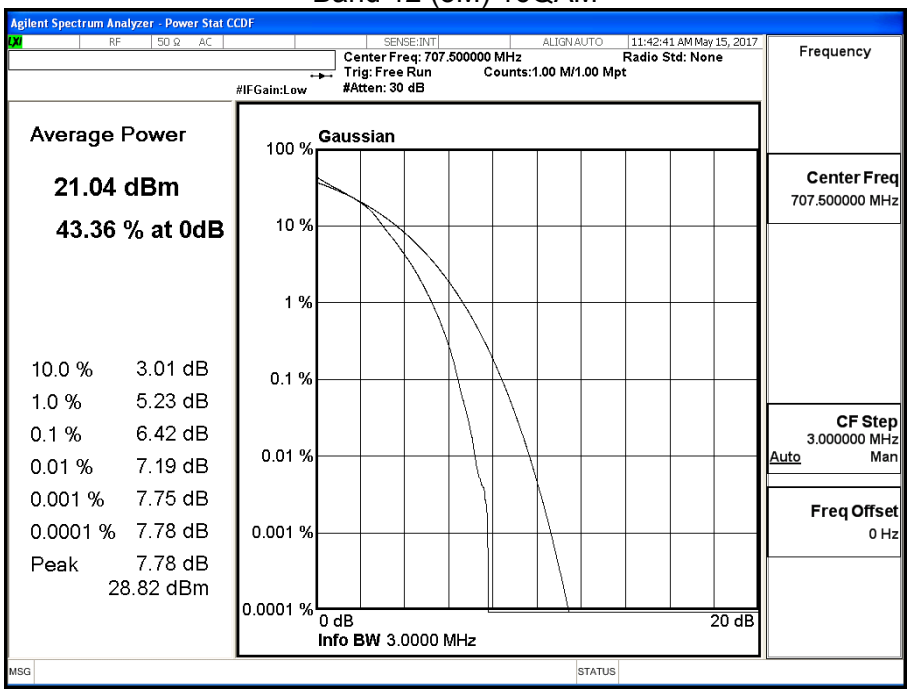
Band 12 (10M) QPSK



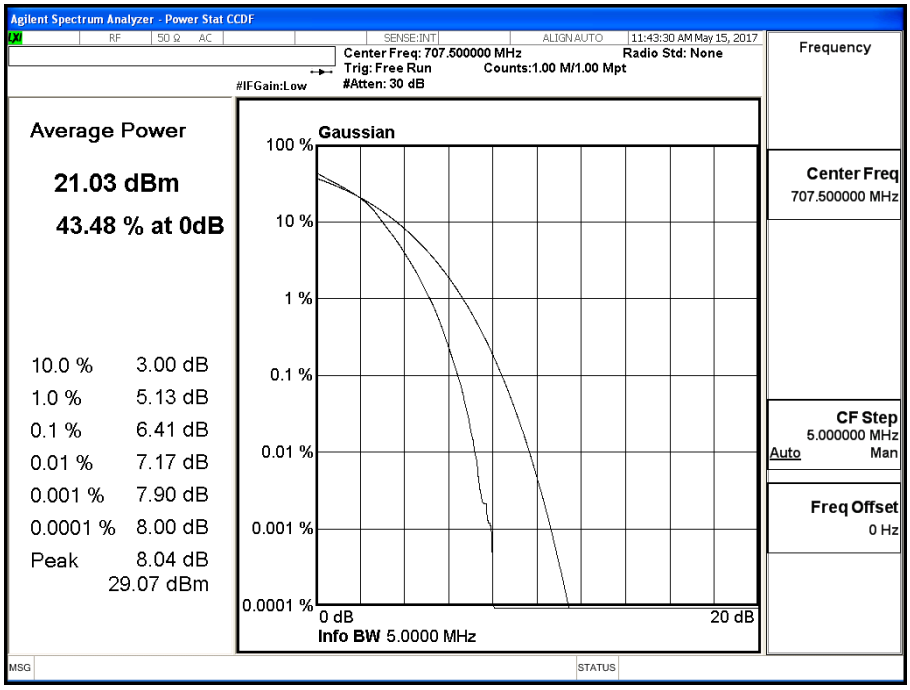
Band 12 (1.4M) 16QAM



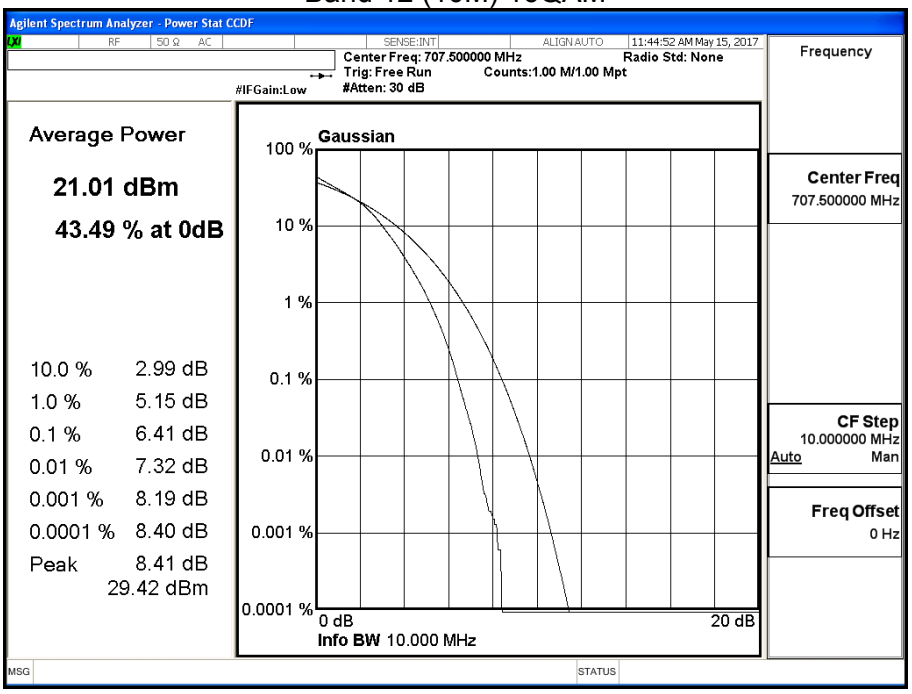
Band 12 (3M) 16QAM



Band 12 (5M) 16QAM

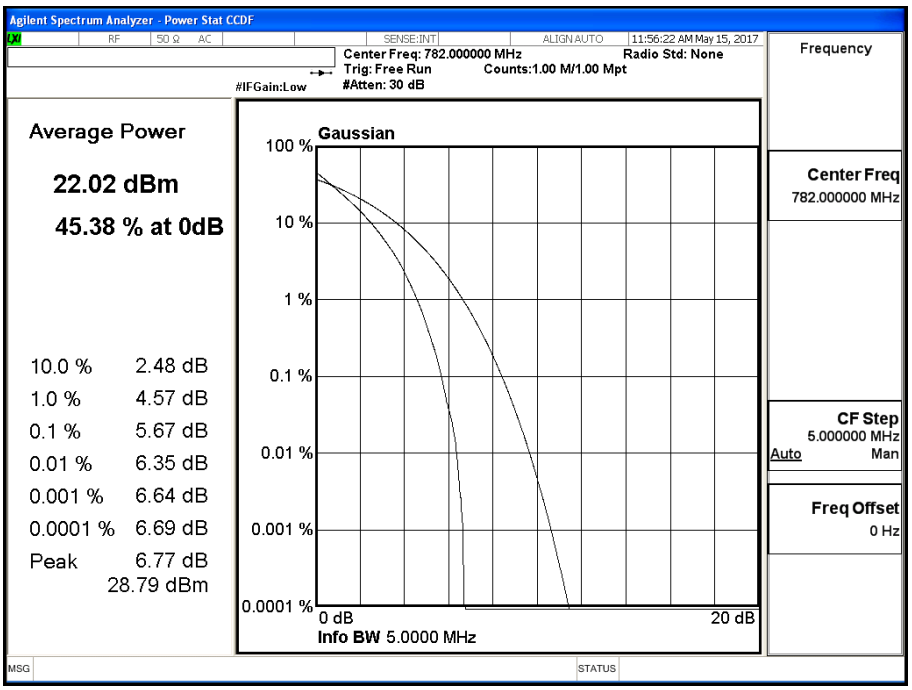


Band 12 (10M) 16QAM

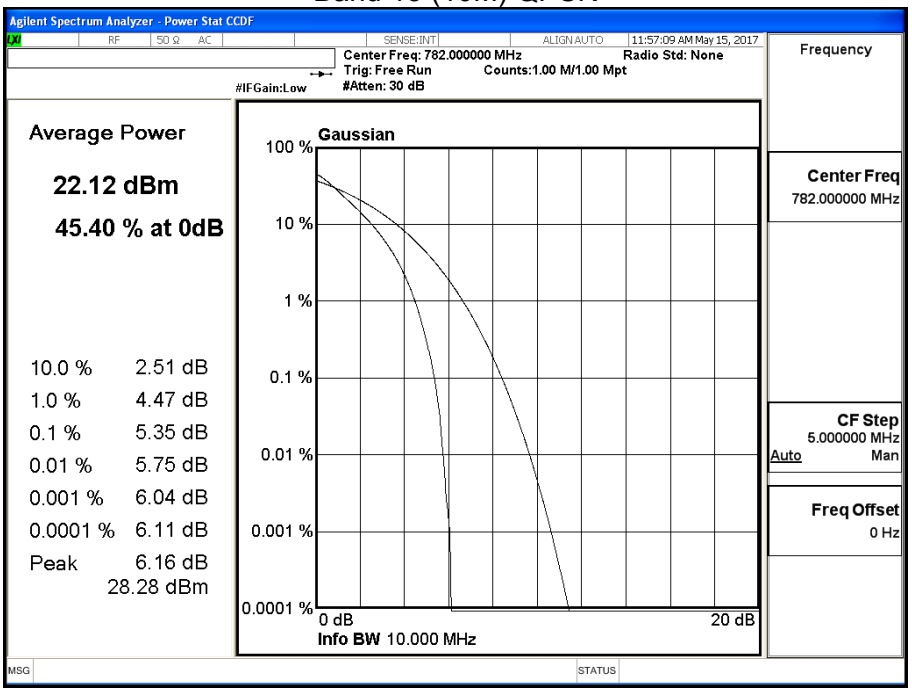


Product	NEO LTE Cellular Alarm Communicators		
Test Mode	Peak to Average Ratio		
Date of Test	2017/05/25	Test Site	CTR
Test Condition	LTE-Band 13		

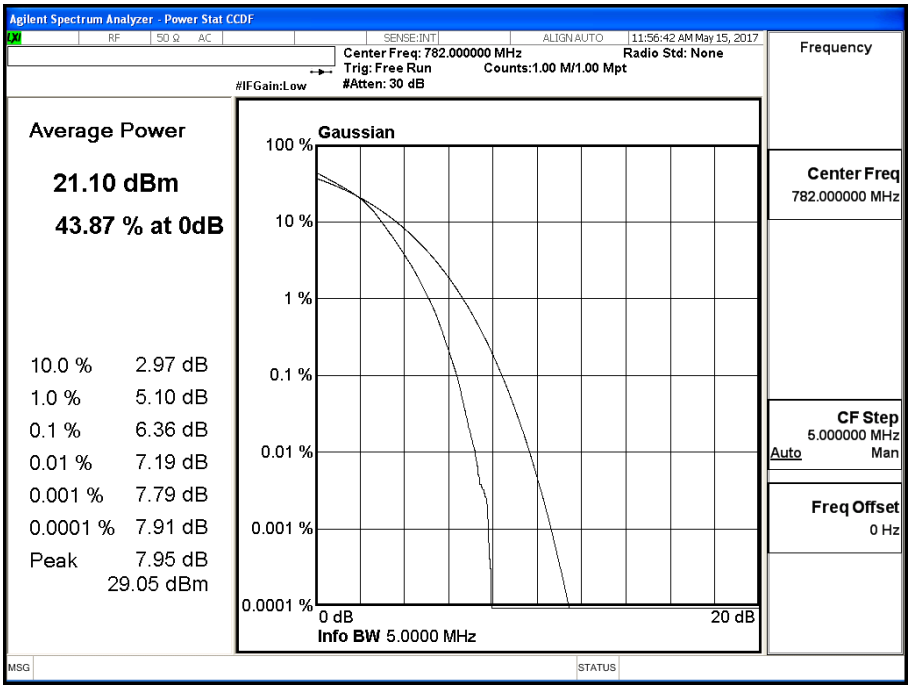
Band 13 (5M) QPSK



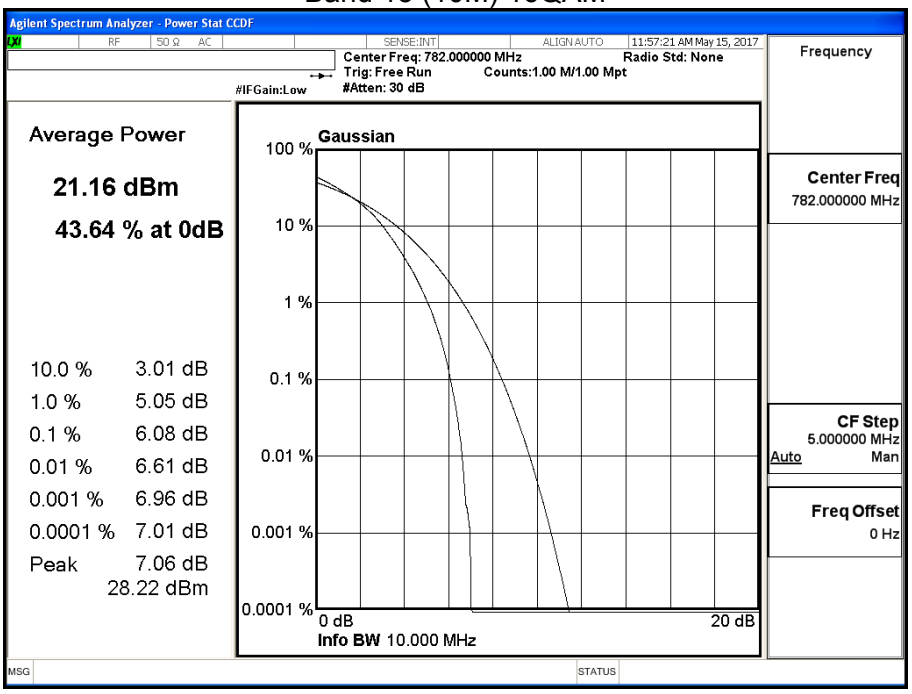
Band 13 (10M) QPSK



Band 13 (5M) 16QAM



Band 13 (10M) 16QAM



Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs